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ABSTRACT

This is the eighth issue of "Social Sciences in Forestry," which provides a current annotated bibliographic listing of references related to four major areas of forestry. The main categories include: (1) applications to forestry at large (containing citings on resources, history, legislation, policy, planning, appraisal and valuation, investment and finance, taxation, economics, education, research, technology, and environmental concerns); (2) applications to forest management (with references on multiple use management, ownership of public and private lands, labor, and protection); (3) production of forest goods and services (addressing areas such as outdoor recreation, wilderness and range management, urban forestry, fish and wildlife, and wood production); and (4) applications to forest industries (focusing on wood-using industries and other forest industries, marketing and trade, and transportation). This publication also contains an alphabetized, cumulative author index. (TW)

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A Current Selected Bibliography and Index

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PREFACE

References submitted by foreign coorperators are acknowledged by the addition of the cooperator's initials directly following the annotation. We welcome contributions of either references to publications or the publications themselves. We would also welcome additional foreign cooperators, particularly from countries not represented on the title page of this issue. Anyone interested in serving as a cooperator should write to us at the University of Minnesota Forestry Library, 1530 North Cleveland Avenue, St. Paul, MN 55108.

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Jean Albrecht
Patricia Rodkewich

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SOCIAL SCIENCES APPLIED TO FORESTRY AT LARGE

GENERAL PUBLICATIONS

1770 Berglund, J.V., Behrend, D.F., and Whaley, R.S., 1986. **Future forestry opportunities in New York.** In: New York Agriculture 2000. New York State Governor's Office. pp.101-111.
Undated; probable date, 1986.

1771 Canadian Council of Forest Ministers, 1986. **Report on the Canadian Forestry Forums 1985-86.** [Ottawa, Canadian Forestry Service.] 48, 55 pp.
In French and English. This publication is a compilation of the reports from each of four forums held during 1985-86 in Halifax, Vancouver, and Toronto. The themes of the four forums were: "Labour market issues", "Multiple-use forestry and environmental issues", "Forest management issues", and "Trade and investment issues".

1772 International Union of For. Res. Org., 18th World Cong., Div. 3, 1986. **Proceedings.** Vienna, IUFRO Secretariat. 410 pp.
Proceedings of Division 3, Forest Operations and Techniques. Selected articles are indexed in this issue.

1773 International Union of For. Res. Org., 18th World Cong., Div. 6, 1986. **Proceedings.** Vienna, International Union of Forestry Research Organizations, Secretariat. 444 pp.
Selected papers are indexed in this issue.

1774 International Union of For. Res. Org., 18th World Cong., Div.4, 1986. **Proceedings.** Vienna, IUFRO Secretariat. 333pp.
Proceedings of Division 4: Planning, economics, growth and yield, management policy. Selected papers are indexed in this issue.

1775 Japanese Forest Economic Society, 1986. **The current state of Japanese forestry (V)--its problems and future.** Tokyo, Japanese Forest Economic Society. 93 pp.
Contributions to IUFRO, Division 4. Selected papers are indexed in this issue.

1776 Kossarz, W., 1984. **[The forests in the People's Republics of the Danube-area].** Vienna, Osterreichischer Agrarverlag. 246 pp.
In German. This report contains the situation of forestry (history, elements of production, statistics, legislation, organization, science and research) in the south-eastern countries of Europe, as CSSR, Hungary, Roumania, Bulgaria, Yugoslavia, Albania and Poland. (WK,WK)

1777 Marszalek, T., 1984. **Forest and forestry in Poland.** Supplement to Annals of Warsaw Agricultural University - Forestry and Wood Technology no. 31. 16pp.
Includes information on forest area, forest ownership, forest industries, etc.

1778 Mead, D.J. and Ellis, R.C., editors, 1985. **Forestry--Satisfying national and regional needs.** Christchurch, New Zealand, University of Canterbury. 217 pp.
Papers presented to the second joint conference of the Institute of Foresters of Australia and New Zealand Institute of Foresters Inc., 20-24 May, 1985, Hobart, Tasmania. Selected papers are indexed in this issue.

1779 Pacific Logging Congress, 1986. **World markets, methods and friends.** Loggers Handbook 46 (sec.II): 1-96.
Official proceedings of the 76th sessions of the Pacific Logging Congress held in Vancouver, B.C., Nov. 14-16, 1985. Includes papers relating to the forest products industry in North America, tax reform, marketing, etc. Individual papers are not indexed in this issue.

1780 Vaclav, E., 1986. **[Forestry in New Zealand.]** Lesnicka Prace 65(1):26-32.
In Czech with English summary.

FOREST RESOURCES: REGIONAL, NATIONAL, INTERNATIONAL

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1783 Colclasure, P., Moen, J., and Bolsinger, C.L., 1986. **Timber resource statistics for the northern interior resource area of California.** U.S. Forest Service, Resource Bulletin PNW-135. 32 pp.

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1785 Ellis, B.K. and Thomas, J.D., 1985. **Forest inventory statistics for a six-county area in southeastern Tennessee.** Tennessee Valley Authority, Division of Land and Economic Resources, Forestry Bulletin no. 185. 32 pp.
The six-county area includes Bradley, Hamilton, McMinn, Meigs, Monroe, and Polk counties. Major area classifications are presented for 1983.

1786 Greenaway, L., chairman, 1986. **Forest resources and industries in Eastern Canada: First report Standing Committee on Environment and Forestry.** Ottawa, Canada, House of Commons.

95pp. + app., 107pp. + app.

In English and French. Includes information on the resource, processing, and marketing of forest products in Quebec, New Brunswick, Nova Scotia, Prince Edward Island, and Newfoundland. Available from: Canadian Government Publishing Centre, Supply and Services Canada, Ottawa K1A 0S9. Copy in MNU Forestry Library.

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Timberland area and volume statistics are presented for the midsouth and the individual states of Alabama, Arkansas, Louisiana, Mississippi, East Oklahoma, Tennessee, and East Texas.

1791 Proctor, J., 1986. **Notes on evergreen rainforests of Karnataka State, South-West India.** Commonwealth Forestry Review 65:227-232.

"The forests are still little known but they deserve much further study because of their great economic and scientific importance." (p. 227)

1792 Rosson, J.F., Jr. and Bertelson, D.F., 1986. **Forest statistics for North Delta Louisiana parishes.** U.S. Forest Service, Resource Bulletin SO-105. 31 pp.

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1794 Rosson, J.F., Jr. and Bertelson, D.F., 1986. **Forest statistics for southeast Louisiana parishes.** U.S. Forest Service, Resource Bulletin SO-104. 31 pp.

1795 Sheffield, R.M. and Knight, H.A., 1986. **North Carolina's forests.** U.S. Forest Service, Resource Bulletin SE-88. 97 pp.

This report presents the principal findings of the fifth inventory of North Carolina's forests relating to the extent and condition of forest land, associated timber volumes, and rates of growth and removals.

1796 Smith, W.B. and Hahn, J.T., 1986. **Michigan's forest statistics, 1987: An inventory update.** U.S. Forest Service, General Technical Report NC-112. 44 pp.

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HISTORY

1799 Bromley, W.S., 1986. **The making of forest policy in pulp and paper trade associations, 1878-1986.** Journal of Forest History 30:192-196.

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1801 Buttoud, G., 1986. **[The policy of mountain afforestation in France during the 19th and 20th centuries: Technical, economic and social implications.]** In: IUFRO World Congress, 18th, Division 6. Proceedings. pp. 227-237.
In French, with English summary.

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A history. Chapters include: "The pre-European forest"; Early European exploration"; and "The period of settlement".

1805 Foster, C.H.W., 1985. **The Cape Cod National Seashore: A landmark alliance.** Hanover, NH, University Press of New England. 125pp.
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Traces the development of forest management of the Hokkaido Prefectural Forests following World War II.

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"A political history of the International Woodworkers of America."

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Accounts of the lives of five prominent Australian foresters: C.E. Lane-Poole, N.W. Jolly, E.H.F. Swain, S.L. Kessell, and M.R. Jacobs.

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1816 Newell, A.S., Clow, R.L., and Ellis, R.N., 1986. **A forest in**

trust: Three-quarters of a century of Indian forestry 1910-1986. Prepared for U.S. Bureau of Indian Affairs, Division of Forestry, under contract to Litigation Support Services, Washington, D.C. var. pag.

1817 Schuler, A., 1986. [Forest utilization and conservation in Swiss mountain regions in the 19th century.] In: IUFRO World Congress, 18th, Division 6. Proceedings. pp. 258-264.

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The focus of this paper is on "the forested reservations of the mountainous West, and on the manner in which those forests have been managed." (p. 268)

1819 Terrie, P.G., 1985. Forever wild: Environmental aesthetics and the Adirondack Forest Preserve. Philadelphia, Temple University Press. 209pp.
A history of the Adirondack Forest Preserve in New York State.

1820 Thirgood, J.V., 1986. The Barbary forest and the viscissitudes (sic) of history. In: IUFRO World Congress, 18th, Division 6. Proceedings. pp. 275-290.

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1822 Totman, C., 1986. Plantation forestry in early modern Japan: Economic aspects of its emergence. Agricultural History 60(3) pp.23-51.
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Discussion of tourism development by the Hakone Toche Company, Ltd. during the 1910s and 1920s.

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LEGISLATION

1828 Akroyd, T., 1986. **Trees and the law.** Arboricultural Journal 10:233-240.
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In German. The author takes the view, that if private property, e.g. property of forests, that is protected by the constitution, is injured by private owners of industrial mills, this private operation has to be inputed to the State, because he has licensed this operation. (WK,WK)

1830 Henly, R.K. and Ellefson, P.V., 1986. **State forest practice regulation in the U.S.: Administration, cost, and accomplishment.** University of Minnesota, Agricultural Experiment Station, Station Bulletin AD-SB-3011. 154 pp.

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1833 Anderson, M.R., 1984. **Forest production as affected by regulation.** In: Summaries of the proceedings of the 1984 Western Forestry Conference. Portland, Western Forestry and Conservation Association. pp. 13-17.
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1834 Borden, T., 1984. **Integrating professional, political and public consideration in managing site productivity.** In: Summaries of the proceedings of the 1984 Western Forestry Conference. Portland, Western Forestry and Conservation Association. pp. 33-40.

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"The term 'management development' in this report refers to the behavioral aspects of management--to what is frequently referred to as organization behavior." (p. 4)

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1838 Kishine, T., 1986. **Optimizing simulation model on forest policy.** In: IUFRO, 18th World Congress, Division 4. Proceedings. pp.301-314.
Subtitle: "Development of mathematical model for forest policy formulation and its optimizing simulation."

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A handbook for people needing a comprehensive understanding of the mathematical structure of FORPLAN Version 1.

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1869 Helwig, L., Baer, N., and Dronen, S., 1984. **How to figure the value of your shelterbelt.** South Dakota State University, Cooperative Extension Service, FS 801.
Undated; probable date, 1984.

1870 Helwig, L., Baer, N.W., and Dronen, S., 1982. **The investment/replacement way to find the value of a shelterbelt/windbreak.** South Dakota Cooperative Extension Service EC 740. 18 pp.
"A method of determining the value of trees in windbreaks and shelterbelts. Worksheets showing the step-by-step procedures..." (p. 3) Undated; probable date 1982; received 1986.

1871 Kato, F., 1986. **[Simplified evaluation of the economic immaturity].** Forst-und Holzwirt 41: 141-146.
In German. The paper presents an approximate procedure to calculate the losses due to premature felling. (WK,WK)

1872 Kirby, K., 1986. **Forest and woodland evaluation.** In: Usher, M.B., ed. Wildlife conservation evaluation. London, Chapman and Hall. pp. 201-221.
"In this chapter various factors which affect the type of woodland evaluation used are considered together with some of the assumptions that lie behind many evaluation systems." (p. 202)

1873 Mann, H.J., 1986. **[Aids for the evaluation of "Randschaden"].** Forst-und Holzwirt 41: 90-95.
In German. Recent edges of stands, caused by every kind of lines through forests (e.g. by road construction, deforestation), are very susceptible for wood-damaging influences from sun and rain. This paper gives detailed tabulations for the financial evaluation of losses of increment and timber quality. (WK,WK)

1874 Michie, B.R. and McCandless, F.D., 1986. **A matrix model of oak-hickory stand management and valuing forest land.** Forest Science 32:759-768.
"The purpose of this study is to develop a model that leads sequentially from the economic value of immediately liqidating an entire stand, to the value of liquidating the stand in two successive harvests, and finally to the value of maintaining that stand in forest management forever." (p. 759)

INVESTMENT AND FINANCE

1875 Albers, C.A. and Franklin, E.C., 1985. **Forest Industries Council overestimated profitable reforestation opportunities on industrial forest land.** N.C. State University, Small Woodlot Forestry R & D Program, Research Notes Series no. 53. 7 pp.

In 1980, the FIC published a report on the opportunities for investment, throughout the U.S., in a number of forest management treatments including reforestation on industrial forest lands. The authors conclude that "the FIC study grossly over estimated the profitable opportunities for investment in reforestation by the forest industry." (p. 4)

1876 Allison, B.J., 1985. **Forests as money.** New Zealand Journal of Forestry 30:267-277.

"The elements of forest value are presented in terms of the money measure of a normalised forest management...." (p. 267)

1877 Blinn, C.R. and Rose, D.W., 1986. **CASH: A general cash flow and sensitivity analysis microcomputer program for conducting project analysis: User's manual.** University of Minnesota, Department of Forest Resources, Staff Paper Series no. 54, Nov., 1985, Revised Aug., 1986. 40 pp.

"CASH is a menu-driven user-friendly microcomputer program written in Microsoft BASIC for application on the IBM personal computer and its compatibles." (p. 1)

1878 Blinn, C.R. and Rose, D.W., 1985. **Essentials of forestry project analysis.** In: Woodland Owners and Users Conference, St.Paul, 1985. Proceedings. pp.11-22.

1879 Boulter, D.W.K., 1986. **Forms of national public sector financing.** In: Glover, S.G. et al., eds. Proceedings 12th Commonwealth Forestry Conference. pp. 194-201.

"In this paper national forms of public sector financing for increased forestry investments are described under two broad categories of direct and indirect funding mechanisms." (p. 200)

1880 Bruce, G.P., 1986. **Strategy for survival--"A forest investment proposal."** Forestry Chronicle 62:369-372.

Investment in intensive forest management in Canada.

1881 Chandrasekharan, C., 1986. **Mobilizing private sector investment for forestry--the developing world.** In: Glover, S.G. et al., eds. Proceedings 12th Commonwealth Forestry Conference. pp. 174-183.

1882 Conger, S.L., Jr. and Corty, F.L., 1986. **Economic feasibility of investing in planted and naturally regenerated even-aged Loblolly pine stands in northcentral Louisiana and similar southern environments.** Louisiana Agricultural Experiment Station D.A.E. Research Report no. 658. 65 pp.

1883 Francis, G.J., 1986. **Investment in wood processing in developed countries.** In: Glover, S.G. et al., eds. Proceedings 12th Commonwealth Forestry Conference. pp. 104-113.

1884 Gentle, S.W., 1986. **Case for investment or challenge to invest?** In: Glover, S.G. et al., eds. Proceedings 12th Commonwealth Forestry Conference. pp. 73-77.

1885 Glover, S.G., Arnott, J.T., and Brown, C.E., editors, 1986. **Proceedings of the twelfth Commonwealth Forestry Conference.** Victoria, B.C., Pacific Forestry Centre. 373 pp.
The theme of the conference was: Investment in forestry--the needs and opportunities. Selected articles are indexed in this issue.

1886 Gresham, G.E., 1986. **Investment in processing in developing countries.** In: Glover, S.G. et al., eds. Proceedings 12th Commonwealth Forestry Conference. pp. 114-123.

1887 Grundy, D.S., 1985. **Developing the economic arguments for investment in forestry: A survey.** Forestry Commission Research and Development Paper 145. 28 pp.

1888 Grundy, D.S., 1986. **Developing the economic arguments for investment in forestry: A survey.** In: Glover, S.G. et al., eds. Proceedings 12th Commonwealth Forestry Conference. pp. 136-145.

1889 Howard, T.E. and Lacy, S.E., 1986. **Forestry limited partnerships.** Journal of Forestry 84(12):39-43.
"Although rarely the reason for investing in a forestry LP, the disappearance of timber's tax advantages and constraints on LPs themselves may finish the partnerships as a vehicle for taxable investors." (p. 43)

1890 Jabil, D.M. and Darus, M., 1986. **National policies for investment in tropical forestry with special reference to Malaysia.** In: Glover, S.G. et al., eds. Proceedings 12th Commonwealth Forestry Conference. pp. 288-297.

1891 Jen, I-an, 1986. **[An economic analysis on planting Leucaena leucocephala in Taiwan.]** Taiwan Forestry Research Institute, Bulletin 466. 16 pp.
In Chinese with English summary. "The purpose of this paper is to analyze rate of return of present capital investment on planting Leucaena leucocephala during the first rotation in Taiwan by means of the Hertz method, i.e., a computer-based capital investment risk analysis procedure." (p. 15)

1892 Jokinen, K., Rinne, K., and Setala, J., 1986. **Accounting and cost control.** In: FAO. Management of forest industries. pp. 241-253.

1893 MacDonald, D.S., 1986. **Investment in forestry--the needs and**

opportunities. In: Glover, S.G. et al., eds. Proceedings 12th Commonwealth Forestry Conference. pp. 9-10.

1894 Nakamura, G. and Hunter, A., 1984. **Financial performance standards for residual stands.** In: Summaries of the proceedings of the 1984 Western Forestry Conference. Portland, Western Forestry and Conservation Association. p. 117.
"Alternative residual stand management scenarios for individual stands are evaluated in terms of their net present value (NPV)."

1895 Price, C., 1986. **Differential depreciation and the cost of forest operations.** Scottish Forestry 40:264-275.
"Machine depreciation, which is a major component of the cost of many forest operations, varies according to the conditions under which the machine is operating." (p. 264)

1896 Puusepp, J., 1986. **Mobilizing private sector investments--the developed world.** In: Glover, S.G. et al., eds. Proceedings 12th Commonwealth Forestry Conference. pp. 184-193.

1897 Reed, F.L.C., 1986. **National policies for investment in temperate forestry.** In: Glover, S.G. et al., eds. Proceedings 12th Commonwealth Forestry Conference. pp. 281-287.

1898 Rideout, D. and Wagner, J.E., 1986. **An analysis of the separable costs-remaining benefits method of joint cost allocation.** Canadian Journal of Forest Research 16:880-884.
"The separable costs-remaining benefits (SCRB) incremental cost-allocation technique, preferred for United States Department of Agriculture Forest Service use, is critically analyzed." (p. 880)

1899 Rose, D.W. and Blinn, C.R., 1985. **A guide to forestry project analysis.** University of Minnesota Department of Forest Resources, Staff Paper Series no. 53. 38 pp.
"'A project analysis' approach uses a systematic and organized approach in an economic or financial evaluation of a particular proposal." (p. 1)

1900 Saukkonen, S.M., 1986. **Project implementation and evaluation.** In: FAO. Management of forest industries. pp. 61-95.

1901 Setala, J., 1986. **Methods and techniques in profitability analyses.** In: FAO. Management of forest industries. pp. 281-304.

1902 South, P.M., 1986. **Making the best use of investment resources.** In: Glover, S.G. et al., eds. Proceedings 12th Commonwealth Forestry Conference. pp. 248-252.

1903 Vaajoensuu, A., Rinne, K., and Setala, J., 1986. **Investment planning.** In: FAO. Management of forest industries. pp. 47-55.

1904 Wisdom, H.W. and McCay, T.D., 1984. **Small mill investments for**

utilizing hardwood forests in southwestern Virgina. Virginia Cooperative Extension Service, Publication 460-108. [3] pp.

"An economic analysis of nine small-log sawmills to be located in the mixed hardwood forests of southwestern Virginia indicated that six of the mills have the potential of earning a rate of return on investment greater than 10 percent."

TAXATION

1905 Brennan, D.P., 1985. **The impact of Treasury II on the federal income tax treatment of timber.** Presentation to the American Paper Institute 1985 Pulp and Fiber Fall Seminar, Innisbrook, Tarpon Springs, Florida, Oct. 2, 1985. 2 pp.

1906 Briggs, C.W. and Condrell, W.K., 1986. **Tax treatment of timber under pertinent sections of the Internal Revenue Code of 1954 as amended.** 7th ed. Washington, D.C., Forest Industries Committee on Timber Valuation and Taxation. 122 pp.

1907 Brokl, C. and Brokl, S., 1985. **Trees and taxes.** In: Woodland Owners and Users Conference, St.Paul, 1985. Proceedings. pp.33-42.

1908 Condrell, W.K., 1986. **Tax Reform Act: The good and the bad.** Forest Farmer 46(2):6-7.

"The Tax Reform Act of 1986 was signed by the President on October 22, 1986. It had both good and bad features from a timber viewpoint." (p. 6)

1909 Dangerfield, C.W., Jr. and Gunter, J.E., 1986. **How the Tax Reform Act will affect forest farmers.** Forest Farmer 46(2):14-15.

1910 Haney, H.L., Jr., 1986. **Should you report CRP payments as income?** Forest Farmer 46(2):10-11.

"In general, as tax rates and cost of capital rise, it is more beneficial to exclude cost share from taxable income." (p. 11)

1911 Hoover, W., 1986. **Tax reform act of 1986: How it will impact tree farmers.** American Tree Farmer 5(6):11-12.

1912 Kronrad, G.D., Hickman, C.A., and Siegel, W.C., 1985. **Optional forest yield taxes in the United State.** U.S. Forest Service, Research Paper SO-227. 14 pp.

"To encourage good forestry practices, 9 states have enacted 11 optional yield tax statutes." (summary)

1913 Milliken, R.B., 1985. **Potential impact of Reagan's tax proposals on timberlands and logging operations.** American Pulpwood Association, Southeastern Technical Division Fall Meeting, Sea Island, Georgia, Nov. 20-21, 1985. 21 pp.

1914 Ogle, A.J., 1985. **Taxation of forestry in New Zealand.** In: Mead, D.J. and Ellis, R.C., eds. Forestry--Satisfying national and regional needs. pp. 85-90.

1915 Rose, S.H., III and Milliken, R.B., 1986. **Tax reform may hurt timber industry.** Forest Farmer 46(2):12-13.
Under the Tax Reform Act of 1986, businesses conducting activities related to timberland and the forest products industry are expected to experience an increased tax burden." (p. 12)

1916 Siegel, W.C., 1986. **Federal Act hits home.** Forest Farmer 46(2):8-9.
Discussion of the 1986 Federal Tax Reform Act.

1917 Walker, B.B., 1985. **Taxation of small private forests in Australia.** In: Mead, D.J. and Ellis, R.C., eds. Forestry--Satisfying national and regional needs. pp. 91-97.

ECONOMIC DEVELOPMENT

1918 Ganguli, B.N., 1986. **Trends in financing forestry: The experience of the Asian Development Bank.** In: Glover, S.G. et al., eds. Proceedings 12th Commonwealth Forestry Conference. pp. 155-165.

1919 Obura, W.B.O., 1986. **Investing in forestry subsector: The role of the African Development Bank.** In: Glover, S.G. et al., eds. Proceedings 12th Commonwealth Forestry Conference. pp. 166-173.

1920 Simula, M., 1985. **Forestry and development--a global viewpoint.** In: Managing global issues; reasons for encouragement. Proceedings of the Club of Rome Conference, Helsinki, 1984. pp. 69-81.

1921 Webster, A., 1986. **The Kesedar project in Kelantan, Malaysia: A study of the socio-economic dynamics in a new land development scheme.** In: FAO. Appropriate forest industries. pp. 181-200.
The two objectives of the project were: (1) "to develop the southern region of the state in terms of its natural resources and potentials"; and (2) "to redistribute incomes and increase opportunities for the rural poor." (p. 192)

SOCIAL AND COMMUNAL FORESTRY

1922 Arnold, J.E.M. and Mnzawa, E.M., 1986. **Forests for people--the developing country case.** In: Glover, S.G. et al., eds. Proceedings 12th Commonwealth Forestry Conference. pp. 65-72.
"This paper attempts to demonstrate how important forests and trees are in the daily life of the people in the developing countries." (p. 71)

1923 Arnold, J.E.M., 1986. **Forestry for local community development and integrated forest management.** In: Strategies, approaches and systems in integrated watershed management. Rome, Food and Agricultural Organization of the United Nations, FAO, Conservation Guide 14: 173-184.

1924 Bandhu, D. and Garg, R.K., editors, 1986. **Social forestry and tribal development.** Indian Environmental Society; distributed by: Natraj Publishers, Dehra Dun. 162 pp.
Selected papers have been indexed in this issue.

1925 Bhattacharya, P.K., 1986. **Social forestry: A study in Ambala and Fatehabad Divisions of Haryana.** In: Giriappa, S., ed. Rural energy crisis. Bombay, Himalaya Publishing House. pp. 99-113.

1926 Boardo, E.L., 1985. **Forestry in development: Philippines and Malaysia.** Ph.D. thesis, State University of New York, College of Environmental Science & Forestry; Ann Arbor, MI, University Microfilms International. 242 pp.
"An examination of the role of forestry as a poverty reducer in rural areas was done for the Philippines and Malaysia." (abstract)

1927 Chandola, L.P., 1986. **Role of forestry plantations in tribal economy.** In: Bandhu, D., and Garg, R.K., eds. Social forestry and tribal development. pp. 89-96.

1928 Datta, S.K. and Singh, M.N., 1986. **Rural energy aspects of social forestry--A study of Bihar.** In: Giriappa, S., ed. Rural energy crisis. Bombay, Himalaya Publ. House. pp. 88-98.

1929 Deshpande, W.R., 1986. **Social forestry and voluntary agencies.** In: Bandhu, D. and Garg, R.K., eds. Social forestry and tribal development. pp. 52-56.

1930 Douglas, J.J., 1986. **Forestry and rural people: New economic perspectives.** In: IUFRO, 18th World Congress, Division 4. Proceedings. pp.62-71.
"Greater time and effort needs to be given to analysing the specific socioeconomic impacts various alternative projects may have, before they are implemented in the field." (p.62)

1931 FAO, 1985. **Tree growing by rural people.** Rome, Food and Agriculture Organization of the United Nations, FAO Forestry

Paper no. 64. 130 pp.

The purpose of this study is "to assemble a clearer picture of the different circumstances in which the growing, managing and use of trees and tree outputs is of benefit to rural people (in developing countries) and to indicate the most effective ways in which support can be provided." (p. iii)

1932 Garg, R.K. and Bandhu, D., 1986. **Tribals and forests in Rajasthan.** In: Bandhu, D. and Garg, R.K., eds. Social forestry and tribal development. pp. 151-162.

1933 Kulkarni, S., 1986. **Forests and tribals.** In: Bandhu, D. and Garg, R.K., eds. Social forestry and tribal development. pp. 97-104.

1934 Narayan, S., 1985. **Social forestry: A case study of tribal region.** Scandinavian Journal of Development Alternatives. 4(3/4):166-172.

"Social forestry is an integral part of the total tribal development which aims at mobilizing the tribals to make them self reliant." (p.167)

1935 Ravindranath, N.H. and Shailaja, R., 1986. **Rural fuelwood crisis and energy options: A case study of Ungra village.** In: Giriappa, S., ed. Rural energy crisis. Bombay, Himalaya Publ. House. pp. 73-80.

1936 Roy, S.K., 1986. **Social forestry--for whom?** In: Bandhu,. D. and Garg, R.K., eds. Social forestry and tribal development. pp. 1-6.

1937 Saikia, P.D. and Goswami, N.R., 1986. **Fuel crisis in rural areas and role of social forestry in Assam.** In: Giriappa, S., ed. Rural energy crisis. Bombay, Himalaya Publ. House. pp. 114-122.

1938 Saxema, V.S., 1986. **Social forestry in tribal development.** In: Bandhu, D. and Garg, R.K., eds. Social forestry and tribal development. pp. 38-51.

1939 Shingi, P.M., Patel, M.S., and Wadwalkar, S., 1986. **Development of social forestry in India.** New Delhi, Oxford and IBH Publishing Co., CMA Monograph 110. 195 pp.

1940 Singh, I.P. and Joshi, P.C., 1986. **Social forestry and tribal development in a central Himalayan tribe.** In: Bandhu, D. and Garg, R.K., eds. Social forestry and tribal development. pp. 57-62.

1941 Sunder, S.S., 1986. **Rural energy crisis: Causes and present position.** In: Giriappa, S., ed. Rural energy crisis. Bombay, Himalaya Publ. House. pp. 81-84.

1942 Tewari, D.N., 1986. **Forestry in national development.** Dehra Dun, India, Jugal Kishore & Co. 256 pp.

Includes chapters on "social forestry," "forestry in rural development," and "forests and tribals."

1943 Tewari, D.N., 1986. **Forests and tribals.** In: Bandhu, D. and Garg, R.K., eds. Social forestry and tribal development. pp.21-33.

1944 Tiwari, K.M., 1986. **Forest and tribals.** In: Bandhu, D. and Garg, R.K., eds. Social forestry and tribal development. pp. 13-20.

AGROFORESTRY

1945 Farrell, J.G., 1983. **Agroforestry systems.** In: Altieri, M.A. Agroecology: the scientific basis of alternative agriculture. 2nd edition. Berkeley, CA, University of California. pp.77-83.

1946 Hawkins, T. and Malla, R.B., 1983. **Farm fodder trees: Patterns of ownership and use.** Nepal Forestry Technical Information Bulletin 9:25-31.

1947 Nair, P.K.R., 1985. **Classification of agroforestry systems.** International Council for Research in Agroforestry, Working Paper no. 28. 52pp.

1948 Nair, R.K.R., 1985. **Agroforestry in the context of land clearing and development in the Tropics.** International Council for Research in Agroforestry, Working Paper no.33. 41pp. + tables & figures.

1949 Robins, E., 1986. **Applying the FSR/E approach in the management of an AID agroforestry project.** In: Jones, J.R. and Wallace, B.J., eds. Social sciences and farming systems research: Methodological perspectives on agricultural development. Boulder, Westview. pp.245-261.
Reports on the Communal Afforestation Project in Rwanda.

1950 Wood, P.J., 1986. **Investment in agroforestry.** In: Glover, S.G. et al., eds. Proceedings 12th Commonwealth Forestry Conference. pp. 231-238.

1951 Young, A., 1984. **Land evaluation for agroforestry: The tasks ahead.** International Council for Research in Agroforestry, Working Paper no.24. 54pp.

SECTOR ANALYSIS

1952 Aldwell, P.H.B., 1982. **Variability of regional income and employment multipliers in forest-based industries in New Zealand.** New Zealand Forest Service Reprint 1620. (Reprinted from: New Zealand Economic Papers 16:113-131.
This study attempts to estimate "likely direct and indirect effects of sawmilling on regional employment." (p. 113)

1953 Dykstra, D.P. and Kallio, M., 1986. **Introduction to the IIASA Forest Sector Model.** In: IUFRO, 18th World Congress, Division 4. Proceedings. pp.124-135.

1954 Helles, F., Jensen, S.F., and Risvand, J., 1984. **[The importance of the Danish forest-based sector to society.]** Frederiksberg, DSR. 230 pp.
In Danish. This book describes the Danish forest resource and the forest-based sector. It assesses the social and economic importance of the sector to Danish society.

1955 Lekawski, E. and Nilsson, S., 1983. **Strengths and weaknesses of the Pulp and Paper System.** University of British Columbia, Forest Economics and Policy Analysis Project. 7 pp.
Undated; probable date, 1983. "The Pulp/Paper System is a price endogenous linear programming model." (p. 2)

1956 Long, R.B. and Hines, G., 1983. **Analyzing a forest, resource-based region facing economic change.** Idaho Agricultural Experiment Station, Bulletin No.626. 8p.
Benewah County, Idaho is used as the region studied. Publication is undated; probable date, 1983.

1957 Lonner, G., Lonnstedt, L., and Nilsson, S., 1986. **A simulation approach to the forest sector modelling problem.** In: IUFRO, 18th World Congress, Division 4. Proceedings. pp.315-323.
This paper describes a forest sector modelling project in Sweden.

1958 Nascimento, J.R., 1985. **Brazilian Amazon development and the forest-based sector.** Ph.D. thesis, University of Minnesota, College of Forestry. 2 vols., 565 pp.
Sections include: "The Amazonian Ecosystem"; "The Amazonian Sociosystem: An Historical Approach"; "The Forest-Based Sector and the Development of Amazonia".

1959 Nilsson, S., 1984. **Strengths and weaknesses of the forest sector model of B.C.** University of British Columbia, Forest Economics and Policy Analysis Project. 12 pp.

1960 Nilsson, S., 1983. **Validation of the database used in the forest sector model of British Columbia.** University of British Columbia, Forest Economics and Policy Analysis Project. 15 pp.
Undated; probable date, 1983.

1961 Nilsson, S.X., Pearse, P.H., and Williams, D.H., 1983. **Modelling the forest sector; a system for analysing Canada's forest economy.** University of British Columbia, Forest Economics and Policy Analysis Project. 52 pp.

1962 Pearse, P.H. et al., 1984. **Developing a system for analysing Canada's forest economy.** University of British Columbia, Forest Economics and Policy Analysis Project. 16 pp.
Co-authors are: D.H. Williams, D.L. Booth, J.M. Fullerton, and P.D. Morrison.

PROFESSIONAL ACTIVITIES, EDUCATION, EMPLOYMENT

1963 Arnott, J.T. et al., compilers, 1986. **Directory of tropical silviculturists.** U.S. Forest Service, Timber Management Research. 71pp.
Published by the U.S. Forest Service for the North American Forestry Commission. Co-compilers are: N.S. Loftus, J.E. Palmer, R.M. Burns, O. Cedeno Sanchez, and M. Olayo Gonzalez.

1964 Black, J.D. and O'Leary, J.T., 1986. **A model for developing leaders through recreation programs.** Journal of Park and Recreation Administration 4(2):42-58.

1965 Brewer, A.L., 1986. **The district ranger: From Smokey Bear to public manager.** Ph.D. thesis, Golden Gate University, 1984; Ann Arbor, Michigan, University Microfilms International. 771 pp.
"This dissertation provides current information about the District Ranger position in Region 5, U.S. Forest Service." (abstract) "This study develops the documentation to be used as a base for evaluating recruitment procedures, employee development practices, and organization structure pertinent to the first level of management and administration. p. 43.

1966 Cato, B., 1986. **Attitudes and behavioral intention of practitioners in the park and recreation profession toward continuing education.** Journal of Park and Recreation Administration 4(2):18-32.

1967 FAO Secretariat, 1986. **Education and training in forestry.** In: FAO. Appropriate forest industries. pp. 227-233.
Discusses university education, technical education, and vocational training.

1968 FAO, 1986. **World list of forestry schools.** Rome, Food and Agriculture Organization of the United Nations, FAO Forestry Paper 3, rev. 2. 135 pp.
This is the fourth edition of the World List of Forestry Schools since its first appearance in 1974.

1969 Fazio, J.R. and Gilbert, D.L., 1986. **Public relations and**

communications for natural resource managers. 2d ed. Dubuque, Iowa, Kendall/Hunt. 399 pp.

1970 Francis, G.J. and Jadhav, Y.G., 1986. **Investment requirements for education and training.** In: Glover, S.G. et al., eds. Proceedings 12th Commonwealth Forestry Conference. pp. 134-135.

1971 Hanley, D.P., 1985. **Structural timber technology education and research in tropical Australia.** In: Symposium on Forest Products Research International...Proceedings. Vol. 7, paper no. 1-6. 11 pp.

Describes the Graduate Diploma in Structural Timber Technology offered by the Capricornia Institute of Advanced Education in Queensland, Australia.

1972 Kennedy, J.J. and Mincolla, J.A., 1985. **Early career development of fisheries and wildlife biologists in two Forest Service regions.** North American Wildlife and Natural Resources Conference. Transactions 50:425-435.

1973 Munro, J.J., 1986. **Forestry employment.** Forestry Chronicle 62:367-368.

Employment in the Canadian forest industry.

1974 Robak, E.W., 1986. **Forest operation planning education: a microcomputer-based decision support approach.** In: IUFRO, 18th World Congress, Division 3. Proceedings. pp.370-381.

1975 Skawran, R.F., 1985. **Selection and development of research workers.** In: Symposium on Forest Products Research International...Proceedings. Vol. 7, paper no. 1-3. 13 pp.

1976 Trent, R.B. and Pratt, S., 1986. **The byte and the bark: Women and computers in forestry education.** Women in Forestry 8(2):17-19.

This paper reports findings of a survey which asked the question: Are women in forestry receiving the same education in computers as other students?" (p. 17)

1977 Vasievich, J.M. and Cooney, T.M., 1986. **Computers and the forestry profession.** Journal of Forestry 84(12):14-17.

1978 Zimmerman, A., 1986. **Jobs in the forest industry.** Forestry Chronicle 62:364-366.

RESEARCH EVALUATION AND METHODOLOGY

1979 Biskup, J., 1986. **[The philosophy and methods of sociology in forestry.]** In: IUFRO World Congress, 18th, Division 6. Proceedings. pp. 346-358.
In French, with English summary. "In this work the author attempts to constitute a methodology of the 'sociology of forestry'." (p. 346)

1980 Bullard, S.H. and Straka, T.J., 1986. **Role of company sales in funding research and development by major U.S. paper companies.** Forest Science 32:936-943.
The authors found that "pulp and paper research by major U.S. companies is very closely related to corporate sales each year." (p.936)

1981 Burley, J., 1986. **Investment in forestry research.** In: Glover, S.G. et al., eds. Proceedings 12th Commonwealth Forestry Conference. pp. 124-133.

1982 Burns, D.P., 1985. **Who manages and evaluates research? Why?** In: Symposium on Forest Products Research International...Proceedings. Vol. 7, paper no. 1-2. 10 pp.

1983 Crow, T.R. and Rauscher, H.M., 1986. **Silvicultural research--theory and application.** In: IUFRO World Congress, 18th, Division 6. Proceedings. pp. 334-345.

1984 Leary, R.A., 1986. **Structuring a coherent research program for northern forests.** In: IUFRO World Congress, 18th, Division 6. Proceedings. pp. 359-369.

1985 Marx, D.H., 1986. **The Southern Commercial Forest Research Cooperative.** In: Appalachian Society of American Foresters. Atmospheric deposition and forest productivity. pp. 98-110.

1986 Rennolls, K. and Pfreundt, J., 1986. **Modelling as a cohesive force in forest research.** In: IUFRO World Congress, 18th, Division 6. Proceedings. pp. 90-98.

1987 Steinlin, H., 1984. **Forestry for development: Need for research.** Philippine Lumberman 30(7):20-23, 25, 32.

1988 Sullivan, J.D., 1985. **New challenges in forestry research.** In: Symposium on Forest Products Research International...Proceedings. Vol. 7, paper no. 1-1. 9 pp.
"This paper looks into the future for forestry research in the near term and beyond." (p. 1)

1989 Westgate, R.A., 1986. **The economics of containerized forest tree seedling research in the United States.** Canadian Journal of Forest Research 16:1007-1012.
"This study examines the economic impacts of research that led to a forestry innovation, containerized forest tree seedlings." (p. 1007)

1990 Youngs, R.L., 1986. **Solving problems through research.** In: IUFRO, 18th World Congress, Division 5. Proceedings. pp.457-463.

TECHNOLOGY TRANSFER AND EXTENSION

1991 Baughman, M.J. and Buchman, T.A., 1986. **Sources of information and guidance for woodland owners.** In: Minnesota Assoc. of Soil and Water Conservation Districts, Forestry Committee. Minnesota tree handbook. Staples, MN, Adventure Publications. pp. 389-393.

1992 Baumgartner, D.M. and Deneke, F.J., 1986. **Extension forestry in the United States.** In: IUFRO, 18th World Congress, Division 4. Proceedings. pp.287-294.
"Nonindustrial private forestlands and their owners are the primary focus of extension forestry programs in the U.S." (p. 287)

1993 Bevege, D.I., 1986. **Institutionalized technology transfer of forest products research--an Australian experience.** In: IUFRO World Congress, 18th, Division 6. Proceedings. pp. 397-409.
Two of the objectives of this paper are: (1) "to discuss the organization of forest products research in Australia"; and (2) to discuss "the infrastructural arrangements through which the results of this research are transferred to user groups...." (p. 398)

1994 Birch, T.W., 1986. **Communicating with nonindustrial private forestland owners.** Journal of Forestry 84(12):25-26, 28, 30-31, 33.

1995 Cayford, J.H. and Riley, L.F., 1986. **Technology transfer at a Canadian research centre.** In: IUFRO World Congress, 18th, Division 6. Proceedings. pp. 216-226.
A discussion of the technology transfer activities at the Great Lakes Forestry Centre.

1996 Connolly, C., 1986. **The technology of technology transfer - a blueprint for success.** U.S. Forest Service, Engineering Field Notes 18(Sept./Oct.):15-28.

1997 Cubbage, F.W. and Hodges, D.G., 1986. **Public and private foresters.** Journal of Forestry 84(12):20-22.
Reports on the results of surveys of technical forestry assistance in Georgia.

1998 Finlayson, W., 1986. **Getting technical information to the field manager.** In: Glover, S.G. et al., eds. Proceedings 12th Commonwealth Forestry Conference. pp. 259-263.
"An attempt is made to review all the means by which a forestry field manager acquires technical information." (p. 259)

1999 Gram, T.J., 1986. **Civil forest administration and extension service in Norway.** In: IUFRO, 18th World Congress, Division 4. Proceedings. pp.295-300.

2000 Hilmi, H.A. and Sim, D., 1986. **Forestry extension organization.** Rome, Food and Agriculture Organization of the United Nations, FAO Forestry Paper no. 66. 167 pp.
The publication is to be "of assistance to developing countries wishing to establish forestry extension programmes or to improve their existing services." (p. iii)

2001 Hodges, D.G. and Cubbage, F.W., 1986. **Private forestry consultants: 1983 status and accomplishments in Georgia.** Southern Journal of Applied Forestry 10:225-230.
"Private forestry consultants working in Georgia were surveyed regarding technical assistance provided to the state's nonindustrial private forest landowners." (p. 225)

2002 Kirmse, R.D., Dickie, A., Artz, N.E., and Anderson, V.J., 1986. **Exporting range extension.** Rangelands 8:233-235.
"This paper identifies obstacles and explores potentially suitable approaches to successful extension of range management principles in developing countries." (p. 233)

2003 Marx, H.G., 1986. **Planning--the bottom line of technology transfer.** In: IUFRO World Congress, 18th, Division 6. Proceedings. pp. 197-202.

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2005 Nelson, D.E. and Vance, J.A., 1986. **USDA Extension Service approach to applying results of forestry research through education and through technology transfer programs.** In: IUFRO World Congress, 18th, Division 6. Proceedings. pp. 203-215.

2006 O'Leary, J.T. and Cassens, D.L., 1985. **Technology transfer and evaluation results for wood industry education programs.** In: Symposium on Forest Products Research International...Proceedings. Vol. 7, paper no. 1-4. 13 pp.

2007 Straka, T.J., Anderson, W.C., and Bullard, S.H., 1986. **An economic appraisal of service forester activities in Mississippi.** Mississippi Agricultural and Forestry Experiment Station, Technical Bulletin 137. 15 pp.
"the study results indicate that the economic benefits attributable to the promotional activities of a service forester are significant." (p. 14)

2008 VanVuuren, M.J.C., 1985. **The utilization of marketing principles in the successful transfer of technology.** In: Symposium on Forest Products Research

International...Proceedings. Vol. 7, paper no. 1-9. 15 pp.

ENVIRONMENTAL CONCERNS

2009 Anderson, D., 1986. **Declining tree stocks in African countries.** World Development 14:853-863.
This paper discusses the problems arising from fuelwood consumption and land clearance. Policy options are discussed. The paper does not consider deforestation arising from industrial forestry.

2010 Appalachian Society of American Foresters, 1986. **Atmospheric deposition and forest productivity: Proceedings of the Fourth Regional Technical Conference at the 65th annual meeting of Appalachian S.A.F., Jan. 29-31, 1986.** Blacksburg, VA, Appalachian Society of American Foresters. SAF 86-06. 119 pp.
Selected papers are indexed in this issue.

2011 Bartlett, R.V., 1986. **Ecological rationality: Reason and environmental policy.** Environmental Ethics 8:221-239.

2012 Blain, D., 1985. **Trees for people.** FAO Ideas and Action 163:16-20. (FAO Microfiche no. 85 S00104)
A discussion of the extent of the problem of deforestation followed by examples of how a number of developing countries are dealing with the problem.

2013 Bosshard, W., 1985. **Forest and wood are endangered throughout the world.** In: Symposium on Forest Products Research International...Proceedings 8:155-160.
"In the highly industrialised countries of the northern hemisphere, the forests are being progressively poisoned to death. In the tropics, the forests are rapidly disappearing...." (p. 155)

2014 Bosshard, W., 1986. **[The forest decline as seen before the political background of an affluent people].** Forstwissenschaftliches Centralblatt 105: 81-86.
In German, English summary. The facts of air pollution and their possible consequences have troubled the minds of large segments of the population. Responsibility for the reduction of air pollution rests with the state authorities. (WK,WK)

2015 Burgess, R.L., 1985. **Forest decline and acid deposition: Quandary for natural resources management.** North American Wildlife and Natural Resources Conferences. Transactions 50:82-90.

2016 Burley, F.W. and Hazlewood, P., 1986. **Mobilizing to save tropical forests.** Garden 10(6):2-5, 32.
Reports on a new cooperative international effort to stop

farming and logging practices which threaten tropical forests.

2017 Cowling, E.B., 1985. **Pollutants in the air and acids in the rain: Influences on our natural environment and a challenge for every industrial society.** University of California, College of Natural Resources, Dept. of Forestry and Resource Management, Horace M. Albright Lectureship in Conservation no. 25. 26 pp.

2018 Fonseca, G.A.B. da, 1985. **The vanishing Brazilian Atlantic forest.** Biological Conservation. 34:17-34.
A long history of land clearing for crops, pastures, timber and firewood has resulted in ... widespread destruction....In order to preserve some of the original diversity of the Atlantic forest, urgent efforts must be channelled toward protecting the remaining forest fragments. (p.17)

2019 Foot, D.L. and Wood, P.J., 1986. **Environmental influences of forestry investment.** In: Glover, S.G. et al., eds. Proceedings 12th Commonwealth Forestry Conference. pp. 78-81.

2020 Foot, D.L., 1985. **Environmental influences on forestry investment in the British upland.** Forestry Commission Research and Development Paper 143. 21 pp.

2021 Gaspar-Hantos, G. and Halasz, G., 1986. **[Observation of environmental effects within the scope of forest management.]** In: IUFRO, 18th World Congress, Division 4. Proceedings. pp.44-49.
In German, with English summary.

2022 Gilbert, J.T.E., 1985. **Conservation of New Zealand's indigenous forests in 1985--meeting public expectations.** In: Mead, D.J. and Ellis, R.C., eds. Forestry--Satisfying national and regional needs. pp. 41-51.

2023 Halkett, J.C., 1985. **Whirinaki--a New Zealand exercise in forest conservation.** In: Mead, D.J. and Ellis, R.C., eds. Forestry--Satisfying national and regional needs. pp. 59-64.

2024 Henne, A., 1986. **[Air pollution and forest management planning.]** In: IUFRO, 18th World Congress, Division 4. Proceedings. pp.50-55.
In German, with English summary.

2025 Kroth, W., 1986. **Approaches and methods to evaluate the economic impacts of atmospheric deposition.** In: IUFRO, 18th World Congress, Division 4. Proceedings. pp.9-16.

2026 Kuusela, K., 1985. **Timber balance of Europe and acid precipitation.** In: Symposium on the Effects of Air Pollution on Forest and Water Ecosystems, Helsinki, 1985. Presented papers. pp. 107-108.

2027 Lowe, P. et al., 1986. **Countryside conflicts: The politics of farming, forestry, and conservation.** Brookfield, VT, Gower. 378 pp.

Discusses the conflict between agriculture and conservation and offers practical suggestions for resolving them. Co-authors are: G. Cox, M. MacEwen, T. O'Riordan, and M. Winter.

2028 Lundgren, B., 1985. **Global deforestation, its causes and suggested remedies.** In: Managing global issues; reasons for encouragement. Proceedings of the Club of Rome Conference, Helsinki, 1984. pp. 98-101.

2029 MacLean, J.T., 1986. **Air pollution effects on crops and forests 1979-85.** U.S. Department of Agriculture, National Agricultural Library, Quick Bibliography Series NAL-BIBL. QB 86-74. 23pp.

Includes 258 citations.

2030 Materna, J., 1985. **Results of the research into air pollutants impact on forests in Czechoslovakia.** In: Symposium on the Effects of Air Pollution on Forest and Water Ecosystems, Helsinki, 1985. Presented papers. pp. 127-137.

2031 McLaughlin, D.L., 1985. **Air pollution, acid rain and forestry: A Canadian perspective.** In: Symposium on the Effects of Air Pollution on Forest and Water Ecosystems, Helsinki, 1985. Presented papers. pp. 115-126.

2032 Miller, A. and Cuff, W., 1986. **The Delphi approach to the mediation of environmental disputes.** Environmental Management 10:321-330.

"Two factions in the spruce budworm dispute in New Brunswick, Canada, were engaged in a mediation exercise using the Delphi method. Details of the design and execution of this form of mediation are provided, together with an evaluation of the Delphi's effectiveness in this context." (p. 321)

2033 Myers, N., 1985. **Forests and environment.** In: Managing global issues; reasons for encouragement. Proceedings of the Club of Rome Conference, Helsinki, 1984. pp. 88-97.

2034 Myers, N., 1984. **The Himalayas: Its effect on 500 million people.** Philippine Lumberman 30(6):18-20, 30.

"The felling of the forests of the Himalayas is one of the world's greatest ecological disasters." (p. 18)

2035 Myers, N., 1986. **Tropical deforestation and a mega-extinction spasm.** In: Conservation biology: The science of scarcity and diversity. Sutherland, MA, Sinauer Assoc., Inc. pp. 394-409.

2036 Niesslein, E., 1986. **The impacts of atmospheric depositions on forests from policy aspects.** In: IUFRO, 18th World Congress, Division 4. Proceedings. pp.25-36.

2037 Norton, B.G., 1986. **Conservation and preservation: A conceptual rehabilitation.** Environmental Ethics 8:195-220.
The author's purpose is "to demonstrate the complexity of motivations supporting preservationist policies and to draw attention to a broader range of philosophical issues that arise in attempts to fashion a rational environmental policy...." (p. 196)

2038 Philpot, C.W. and Radloff, D.L., 1986. **An assessment of effects of acidic deposition on U.S. forests.** In: International Union of Forestry Research Organizations, 18th World Congress, Division 2. Proceedings. 1:333-337.

2039 Pierce, G.D., 1986. **How to save the Zambezi teak forests.** Unasylva 38(2):29-36.
"The decline of the Zambezi teak forests has proceeded slowly and steadily during this century." (p. 29)

2040 Remrod, J., 1986. **[Will the forest suffice? - The development of the forest from a Swedish viewpoint.]** Das Papier 40(10A):165-170.
In German with English summary. "There is a strong common interest of all European countries to combat air pollution and to stop the dying of the forests. The future of Europe will largely depend on the vitality of its forests." (p.165)

2041 Ruprich, J., 1986. **[Effects of damage caused to forest stands by air pollutants as exercised on the development of Czechoslovakian forestry.]** Vysoka skola zemedelska v Brne, Lesnicka fakulta. 10 pp.
An economic analysis. In Czech. with English summary. (JR)

2042 Singh, V.P., Garge, A., Pathak, S.M., and Mall, L.P., 1986. **Mangrove forests of Andaman Islands in relation to human interference.** Environmental Conservation 13:169-172.
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2043 Slocum, R.W., Jr., 1986. **Public opinion and a legislative perspective on acid rain.** In: Appalachian Society of American Foresters. Atmospheric deposition and forest productivity. pp. 86-90.

2044 Spears, J., 1986. **Deforestation issues in developing countries: The case for an accelerated investment program.** In: Glover, S.G. et al., eds. Proceedings 12th Commonwealth Forestry Conference. pp. 47-64.

2045 Steinlin, H., 1985. **Possible effects of acid deposition on forest growth, removals and timber markets.** In: Symposium on the Effects of Air Pollution on Forest and Water Ecosystems, Helsinki, 1985. Presented papers. pp. 109-114.

2046 Steinlin, H., 1986. **[Sustained forestry is according to nature].** Allgemeine Forst Zeitschrift 41: 929-933.

In German. This paper shows the historical development of the principle of sustained yield and its importance for forestry of nowadays. (WK,WK)

2047 Suda, M. and Gundermann, E., 1986. **Approaches and methods to evaluate the impacts of the forest die-back on the social functions.** In: IUFRO, 18th World Congress, Division 4. Proceedings. pp.17-24.

This paper addresses the question of "how the output of infrastructural services of forests are affected" by forest die-back and how these impacts can be evaluated. (p.17)

2048 Symposium on the Effects of Air Pollution on Forest and Water Ecosystems, Helsinki, 1985. **Presented papers.** Helsinki, Foundation for Research of Natural Resources in Finland. 143 pp.

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2049 U.S. General Accounting Office, 1986. **Public lands: Interior should ensure against abuses from hardrock mining.** U.S. General Accounting Office. 50 pp.

"This report describes how effectively the...BLM is regulating mining activities conducted under the Mining Law of 1872, as amended." (p. 1)

2050 VanLennep, E., 1986. **Protecting U.S. tropical forests.** American Land Forum 6(4):4-6.

Discusses what the U.S. must do to protect its own tropical forests.

2051 VDI-Commission, 1985. **[Forest decline in the 19th century].** Dusseldorf, VDI-Verlag. 782 p.

In German. A reprint-edition of some articles written by Prof. Dr. H. Wislicenus, Tharandt, in the years 1908-1916. (WK,WK)

SOCIAL IMPACTS

2052 Taylor, N. and McClintock, W., 1984. **Rapid growth and resource development: Social issues and strategies for coping.** Wellington, NZ, Ministry of Works and Development, Town and Country Planning Directorate. 37 pp.
"The objective of this report is to present...the results of recent research conducted at the Centre for Resource Management which examines the social issues of rapid population growth." (p. 1) Includes an introduction to the study of social impact assessment. Among the towns studied were five forestry towns." (CNT)

SOCIAL SCIENCES APPLIED TO FOREST MANAGEMENT

FOREST MANAGEMENT - GENERAL ASPECTS

2053 Baskerville, G., 1986. **Understanding forest management.** Forestry Chronicle 62:339-347.
"The question examined in this paper is how can forest management be designed to control the continuous availability of high quality raw material at reasonable cost." (p. 339)

2054 Bowersock, J.N., 1986. **Forest management--the need for trust.** Forestry Chronicle 62:356-358.
Reviews forest management agreements between the Canadian provincial governments and companies and outlines the need to develop trust between governments and corporations.

2055 Davis, L.S. and Johnson, K.N., 1986. **Forest management.** 3rd ed. New York, McGraw Hill. 790 pp.
Includes sections on "Production of timber from the forest", "Decision analysis in forest management", "Valuation", and "Forest management".

2056 Kimmins, J.P., 1984. **Political indifference and social concerns about forest management.** In: Summaries of the proceedings of the 1984 Western Forestry Conference. Portland, Western Forestry and Conservation Association. pp. 60-61.
The long time scale of tree crop production causes public relations problems for foresters.

2057 Mitra, T., and Wan, H.Y., Jr., 1986. **On the Faustmann solution to the forest management problem.** Journal of Economic Theory 40:229-249.

2058 Webster, H.H., 1986. **Some strategic considerations in managing hardwood forests in the Lake States.** In: Hardwood thinning opportunities in the Lake States: Proceedings of a symposium, Escanaba, MI, 1984. U.S. Forest Service, General Technical Report NC-113:1-5.

2059 Weetman, G.F., 1986. **The state of Canadian forest management.** Forestry Chronicle 62:348-355.

MULTIPLE-USE MANAGEMENT

2060 Alward, G.S., 1986. **Assessing the socioeconomic implications of multiple-use forestry.** In: IUFRO, 18th World Congress, Division 4. Proceedings. pp.192-201.

"The importance of interactions between a region's income cycle and multiple-use forestry activities are examined." (p.192)

2061 Damnjanovic, S.S., 1986. **Policy development for multiple use forestry in Yugoslavia.** In: IUFRO, 18th World Congress, Division 4. Proceedings. pp.92-103.

2062 Dickson, J.G., 1985. **USDA Forest Service: Management, research, and cooperative forestry for multiple benefits.** North American Wildlife and Natural Resources Conference. Transactions 50:215-220.

2063 Field, R.J., Forbes, D.C., and Doyle, L.M., 1985. **Multiple-use management on Tennessee Valley Authority lands.** North American Wildlife and Natural Resources Conference. Transactions 50:242-248.

2064 Hicks, L.L., 1985. **Multiple-use on western private industrial timberlands.** North American Wildlife and Natural Resources Conference. Transactions 50:211-214.

2065 Illyes, B. and Keresztesi, B., 1986. **New developments in the economic evaluation of the multiple-use of forestry in eastern European countries.** In: IUFRO, 18th World Congress, Division 4. Proceedings. pp.104-111.

2066 Kaiser, H.F., 1986. **The use of quantitative values multiple-use forest evaluations.** In: IUFRO, 18th World Congress, Division 4. Proceedings. pp.202-209.

This paper examines the importance of quantitative social values in multiple-use analysis and discusses the various methods for deriving these values.

2067 Krecmer, V., 1986. **[Integration of functions in forestry.]** Lesnick Prace 65(1):15-21.

In Czech with English summary. Management for "non wood production functions of forest resources" as well as for wood production.

2068 Moiseev, N.A., 1986. **System approach to multiple forest use management strategy for large areas.** In: IUFRO, 18th World Congress, Division 4. Proceedings. pp.183-191.

2069 Rochelle, J.A. and Melchiors, M.A., 1985. **The role of environmental research in multiple-use management of private forestlands.** North American Wildlife and Natural Resources Conference. Transactions 50:271-276.
"The purpose of this paper is to describe the evolution of environmental research programs and their role in the management of non-timber resources on Weyerhaeuser Company forestlands." (p. 271)

2070 Schweitzer, D.L., 1986. **Economic analysis in multiple-use planning for the National Forests of the United States.** In: IUFRO, 18th World Congress, Division 4. Proceedings. pp.263-269.
"Economic analysis is used in planning for the National Forests to ensure forest plans are economically efficient in achieving their goals." (p.263)

2071 Webster, H.H. and Hacker, J.J., 1986. **Multiple use: Improving on a good idea, and avoiding a red herring.** Forestry Chronicle 62:262-264.

OWNERSHIP

PUBLIC LAND MANAGEMENT

2072 Behan, R.W., 1984. **The economics and politics of public land management: A case of institutional lunacy (and a few modest prescriptions.)** In: Summaries of the proceedings of the 1984 Western Forestry Conference. Portland, Western Forestry and Conservation Association. pp. 24-32.

2073 Cowart, R.H., Fairfax, S.K., and Wilson, L.U., 1986. **Beyond the sagebrush rebellion.** Journal of Forestry 84(11):25-28.
"The spirit of the sagebrush rebellion...has contributed techniques for forming state-federal partnerships that may have applications throughout the nation." (p. 28)

2074 Junkin, E.D., 1986. **Lands of brighter destiny: The public lands of the American west.** Golden, CO, Fulcrum.
Includes interviews with people involved with these lands.

2075 Marshall, I.B., 1985. **Canada's federal lands.** Ottawa, Environment Canada, Lands Directorate.
Map with text.

2076 U.S. Bureau of Land Management, 1986. **Public land statistics 1985.** U.S. Bureau of Land Management. 122 pp.
Includes statistics relating to range management, forest management, wildlife habitat management, outdoor recreation, wilderness resources, fire protection, etc. on lands administered by the Bureau of Land Management.

2077 U.S. General Accounting Office, 1986. **Mineral resources: Forest**

Service has a limited but influential role. U.S. General Accounting Office. 39 pp.

The purpose of this report is to "identify the Forest Service's role in the management of federal minerals and determine "if an effective management relationship exists between the Forest Service and the Bureau of Land Management, which has primary responsibility for federal minerals management." (p. 1)

PRIVATE OWNERSHIP - INDUSTRIAL

2078 Kasahara, Y., 1986. **The present situation of Forest Owners' Cooperative in Japan.** In: Japanese Forest Economic Society. The current state of Japanese forestry (V). pp.49-54.

2079 Klemperer, W.D. and Greber, B.J., 1986. **Economics of buying versus leasing timberlands.** Southern Journal of Applied Forestry 10:211-214.

"This paper illustrates decision guidelines for forest products firms deciding whether to buy or lease timberlands." (p. 211)

2080 Meyer, R.D., Klemperer, W.D., and Siegel, W.C., 1986. **Cutting contracts and timberland leasing.** Journal of Forestry 84(12):35-38.

NONINDUSTRIAL PRIVATE FORESTRY

2081 Baker, P.N., 1985. **Small private forests and their owners--characteristics and professional foresters' responsibilities to them.** In: Mead, D.J. and Ellis, R.C., eds. Forestry--Satisfying national and regional needs. pp. 133-136.

2082 Hurley, P.J., 1986. **Government assistance for private forestry - the Farm Forestry Agreement Scheme in Victoria.** Australian Forestry 49:181-188.

Describes an incentive scheme operated by the Victorian Government since 1967 to encourage private foresters to establish plantations for commercial wood production.

2083 McKenzie, G.R. and Trotman, I.G., 1985. **Lessons from New Zealand's experience with the small private forest grower.** In: Mead, D.J. and Ellis, R.C., eds. Forestry--Satisfying national and regional needs. pp. 125-132.

"The paper traces the relationship between the Government and small private grower in New Zealand from 1871 through to changes in the 1984 Budget." (p. 125)

2084 Rennie, I., 1985. **Management and marketing of private forests in the South Island of New Zealand.** In: Mead, D.J. and Ellis, R.C., eds. Forestry--Satisfying national and regional needs. pp. 121-124.

2085 Tilling, A.J. and Mead, D.J., 1985. **Providing for the needs of the small private forest owner in the Canterbury Region, New Zealand: A regional planning perspective.** In: Mead, D.J. and Ellis, R.C., eds. Forestry--Satisfying national and regional needs. pp. 115-120.

2086 Walsh, J., 1985. **Wanted--small private forests.** In: Mead, D.J. and Ellis, R.C., eds. Forestry--Satisfying national and regional needs. pp. 103-109.
Discussion of the benefits and problems relating to small private forests in Tasmania.

2087 Woodland Owners and Users Conference, St.Paul, 1985. **Proceedings.** University of Minnesota, Office of Special Programs. 92 pp.
Selected articles have been indexed in this issue.

LABOR CONSIDERATIONS - WORK STUDIES

2088 Balcker, J.E., 1986. **Training of labour in a new cellulose pulp mill Alto Parana S.A. at Puerto Esperanza, Misiones-Argentina.** In: FAO. Appropriate forest industries. pp. 217-226.

2089 FAO Secretariat, 1986. **Measuring training requirements and impact of training in forest industries.** In: FAO. Appropriate forest industries. pp. 235-247.
"This report attempts to quantify the skills in industry utilizing a general reference of skills required for all jobs in the primary forest industries." (p. 236)

2090 Figuric, M., 1986. **[Treatment of working conditions in distribution system of personal income resources** in wood industry.] Drvna Industrija 37:167-174.
In Serbo-Croatian with English summary.

2091 Hope, P.A., 1986. **Ergonomic evaluation of stroke delimbers.** Forest Engineering Research Institute of Canada, Technical Report TR-72. 34 pp.

2092 Instituto Forestal, Santiago, Chile, 1984. **[Forestry employment: Characterization and quantification.]** Serie Informatica no. 18. 63 pp.
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2093 Werner, M., 1986. **Developments in new wage forms in Swedish forestry.** In: IUFRO, 18th World Congress, Division 3. Proceedings. pp.382-394.

Reports on a study of the effects of a change in forms of remuneration from a piecework rate system to monthly salaries, to monthly salaries plus productivity bonus.

PROTECTION

2094 Antle, J.M., 1985. **What is integrated pest management? An economic interpretation.** Resources for the Future. Discussion Paper RR85-09. 25 pp.
"This paper reviews definitions of integrated pest management (IPM) in the literature, outlines basic concepts related to the economic analysis of pest management, and provides alternative definitions and interpretations of IPM from the point of view of the production economist." (abstract)

2095 Baskerville, G., 1986. **Protecting the investment.** In: Glover, S.G. et al., eds. Proceedings 12th Commonwealth Forestry Conference. pp. 275-280.
This paper examines the threat to the forest investment by fire, insects and disease.

2096 Bennett, G.W. and Owens, J.M., editors, 1986. **Advances in urban pest management.** New York, Van Nostrand Reinhold Co. 399 pp.

2097 Branham, S.J. and Hertel, G.D., Editors, 1984. **Integrated Forest Pest Management Symposium, Athens, Georgia, 1984: Proceedings.** University of Georgia, Center for Continuing Education. 281 pp.
Selected articles have been indexed in this issue.

2098 Branham, S.J., Thatcher, R.C., Mason, G.N., and Hertel, G.D., 1985. **Integrated pest management in the South: Highlights of a 5-year program.** U.S. Department of Agriculture, Agriculture Information Bulletin 491. 19 pp.

2099 Churchill, K.T., 1984. **Decisionmaking and the review process--how they affect forest pest managemnt in the Forest Service.** In: Summaries of the proceedings of the 1984 Western Forestry Conference. Portland, Western Forestry and Conservation Association. p. 41.
Abstract only.

2100 Coster, J.E., 1984. **Concepts of integrated forest insect management.** In: Branham, S.J. and Hertel, G.D., eds. Integrated Forest Pest Management Symposium, Athens, GA, 1984: Proc. pp. 8-15.

2101 Fowler, R.F., Wilson, L.F., and Paananen, D.M., 1986. **Insect suppression in Eastern Region national forests: 1930-1980.** U.S. Forest Service, General Technical Report NC-103. 56 pp.
Reports on insect suppression in 16 Eastern Region national forests over a 50-year period.

2102 Gonzalez-Caban, A., 1986. **Analyzing fuel treatment costs.** Western Journal of Applied Forestry 1:116-121.
"This study measured the economic costs of fuel treatments on the Willamette and Lolo National Forests." (p. 116)

2103 Hertel, G.D., Mason, G.N., and Thatcher, R.C., 1986. **Integrated pest management concepts and application in wilderness and natural areas management.** In: Kulhavy, D.L. and Conner, R.N., eds. Wilderness and natural areas in the eastern United States: A management challenge. pp. 138-145.

2104 LeMay, N.H., 1986. **History of forest fire protection in Wisconsin.** Timber Producer, June, 1986. pp. 28-32.

2105 Mills, T.J. and Flowers, P.J., 1986. **Wildfire impacts on the present net value of timber stands: Illustrations in the Northern Rocky Mountains.** Forest Science 32:707-724.

2106 Mistretta, P.A. and Bylin, C.V., 1986. **Incidence and impact of damage to Alabama's timber, 1983.** U.S. Forest Service, Resource Bulletin SO-112. 20 pp.
Reports data on timber damage collected during a 1981-83 survey of Alabama's forests. Economic impact is discussed.

2107 Mistretta, P.A., Bylin, C.V., and Baker, R., 1986. **Incidence and impact of damage to Tennessee's timber, 1982.** U.S. Forest Service, Resource Bulletin SO-110. 18 pp.
Data collected during a 1979-80 survey of Tennessee's forests are tabulated and discussed. Includes a report on economic impact.

2108 Montgomery, C.A., Brodie, J.D., and Cleaves, D.A., 1986. **Allowable cut effect and fire-damage appraisal.** Western Journal of Applied Forestry 1:100-103.
"Analysis of investment in forest fire protection and control first requires appraisal of potential loss." (p. 100)

2109 Peterson, R.M., 1984. **The role of integrated pest management in forest planning and management.** In: Branham, S.J. and Hertel, G.D., eds. Integrated Forest Pest Management Symposium, Athens, GA, 1984: Proc. pp. 2-7.

2110 Rowe, G.A., 1984. **Economic impact of gypsy moth.** In: Summaries of the proceedings of the 1984 Western Forestry Conference. Portland, Western Forestry and Conservation Association. p. 126.

2111 Rykowski, K., 1986. **Economic aspects of fomes annosus root rot in pine stands on post-agricultural lands in Poland.** In: International Union of Forestry Research Organizations, 18th World Congress, Division 2. Proceedings. 1:208-213.

2112 Teeter, L.D. and Dyer, A.A., 1986. **A multiattribute utility model for incorporating risk in fire management planning.**

Forest Science 32:1032-1048.

"This study sought a method to incorporate concerns for intangible fire impacts by defining and measuring a proxy decision attribute called 'risk'." (p.1044)

2113 U.S. Forest Service, Northern Region, 1986. **Western spruce budworm in the Northern Region: 1985 situation analysis.** U.S. Forest Service, Northern Region, Report 86-12. 42pp.

2114 Wein, R.W., 1986. **Towards a fire management strategy in eastern mixedwood forest conservation areas.** In: Kulhavy, D.L. and Conner, R.N., eds. Wilderness and natural areas in the eastern United States: A management challenge. pp.191-197.

PRODUCTION OF FOREST GOODS AND SERVICES

OUTDOOR RECREATION

2115 Anderson, R.S., Leitch, J.A., and Mittleider, J.F., 1986. **Contribution of state parks to state economies.** Parks and Recreation 21(10):62-63.

2116 Baker, P.R., 1986. **Tourism and the national parks.** Parks and Recreation 21(10):50-53, 67.

2117 Baldacchino, N.P., 1984. **Recreation fees on national wildlife refuges.** Trends 21(4):39-41.

2118 Ballentine, W.J., 1984. **New Zealand marine reserves and parks.** In: Wells, M., ed. Parks, recreation and tourism. pp. 150-154.

2119 Bolton, J.W., 1984. **The effect of tourism on recreational areas.** In: Well, M., ed. Parks, recreation and tourism. pp. 198-200.

A case study of the Pohangina Valley Domain, New Zealand is presented.

2120 Bossi, J.E., 1984. **Recreation user fees--a much maligned subject.** Trends 21(4):9-11.

2121 Bosworth, P., 1984. **Natural area management and tourism in South West Tasmania.** In: Wells, M., ed. Parks, recreation and tourism. pp. 105-109.

2122 Brooks, R. and Michalson, E.L., 1984. **The effect of the Wild and Scenic Rivers Plan on alternative resources uses.** Idaho Agricultural Experiment Station. Bulletin no. 632. 12p.

Discusses the economic impacts on agriculture, forestry and mining.

2123 Brown, B.R., 1984. **Recreational use fees on public lands administered by the Bureau of Land Management.** Trends

21(4):31-35.

2124 Buhyoff, G.J., Hull, R.B., IV, Lien, J.N., and Cordell, H.K., 1986. **Prediction of scenic quality for southern pine stands.** Forest Science 32:769-778.

2125 Clarkson, R.C., 1984. **Tourism and the natural environment--Queensland situation.** In: Wells, M., ed. Parks, recreation and tourism. pp. 125-133.
Any recreational activities promoted need to be compatible with the conservation and scenic values of the area involved. (p. 131)

2126 Crompton, J.L., 1984. **How to establish a price for park and recreation services.** Trends 21(4):12-21.

2127 Dean, G.J., 1984. **The role of government in promoting tourism in public parks and reserves.** In: Wells, M., ed. Parks, recreation and tourism. pp. 63-72.

2128 Ditton, R.B. and Miller, M.L., 1986. **Coastal recreation: An emerging area of managerial concern and research opportunity.** Leisure Sciences 8:223-239.

2129 Donnelly, M.P., Vaske, J.J., and Graefe, A.R., 1986. **Degree and range of recreation specialization: Toward a typology of boating related activities.** Journal of Leisure Research 18:81-95.
"The goal of this paper is to extend previous research by using the specialization concept to compare individuals who participate in sailboating and motorboating." (p. 82)

2130 Driver, B.L. and Koch, N.E., 1986. **Cross-cultural trends in user fees charged at national outdoor recreation areas.** In: IUFRO World Congress, 18th, Division 6. Proceedings. pp. 370-385.

2131 Dutton, I. and Woodley, S., 1984. **Offshore tourist developments--a case study of an emergent management issue within the Great Barrier Reef Region.** In: Wells, M., ed. Parks, recreation and tourism. pp. 139-149.

2132 Dutton, I.M. and Driml, S.M., 1984. **Tourism in the Great Barrier Reef Marine Park.** In: Wells, M., ed. Parks, recreation and tourism. pp. 38-47.

2133 Ekanayake, R. and Sinden, J.A., 1985. **Identification of needs and preferences of a rural community for indigenous woodland.** In: Mead, D.J. and Ellis, R.C., eds. Forestry--Satisfying national and regional needs. pp. 37-39.
One of the needs expressed was for recreational benefits.

2134 Ellerbrock, M.J., 1982. **Implementing user fees at public parks and recreation areas.** University of Florida, Institute of Food and Agricultural Sciences, Food and Resource Economics Department, Staff Paper no. 201. 11 pp., 4 pp., 12 pp.

Appendices include two of the author's papers: "Some straight talk on user fees," published in Parks and Recreation, Jan., 1982; and "Fundamentals of recreation demand analysis," a paper presented at the Joint Spring Meeting of the Southeastern Council of Outdoor Recreation Planners and Southeastern Council of Grants Administrators, Atlanta, April 16-18, 1980.

2135 Evers, N., 1984. **Parks and people.** In: Wells, M., ed. Parks, recreation and tourism. pp. 5-13.
Explores current and anticipated trends in tourism and recreational activity, and the extent to which public land managers are equipped to handle the increasing demand.

2136 Ewert, A., 1985. **Risk recreation: Trends and issues.** Trends 22(3):4-9.
"by the year 2000, demand for outdoor adventure opportunities, as they currently exist, will exceed the supply of natural resources.... If this prophesy is correct, it will become increasingly important for our professional and governmental organizations to provide for beneficial risk recreation outlets." (p. 9)

2137 Fargo, H. and Nakata, L., 1984. **Minimizing the impact of fees on low income users.** Trends 21(4):36-38.

2138 Field, D.R., 1986. **Community and natural resource development: Another look at tourism.** In: IUFRO World Congress, 18th, Division 6. Proceedings. pp. 42-53.
As the availability of natural resources diminishes in small rural communities throughout the world, many such communities have begun to look to tourism as an alternative resource development option. "The present paper explores the question of tourism as a viable rural development program for small resource dependent communities." (p. 42)

2139 Findeis, J.L. and Michalson, E.L., 1984. **The demand for and value of outdoor recreation in the Targhee National Forest, Idaho.** Idaho Agricultural Experiment Station, Bulletin No.627. 19p.

2140 Gare, N., 1984. **Tourism and natural area management--two case studies in Kakadu National Park.** In: Wells, M., ed. Parks, recreation and tourism. pp. 99-103.
Kakadu National Park is in the Northern Territory of Australia.

2141 Graefe, A.R. and Fedler, A.J., 1986. **Situational and subjective determinants of satisfaction in marine recreational fishing.** Leisure Sciences 8:275-295.
"This paper proposes a model of fishing satisfaction that integrates subjective and situational factors as well as consumptive and nonconsumptive elements of the experience." (p. 275)

2142 Guldin, R.W. and Kroon, H.J.J., 1986. **Economic and social**

aspects of user fees. In: IUFRO World Congress, 18th, Division 6. Proceedings. pp. 386-396.
"The objective of this paper is to review the alternative stategies available to public financiers for setting recreation use fees in a market economy." (p. 387)

2143 Hepper, J. and Marriott, K., 1984. **Issues in near-urban tourism and recreation planning.** In: Wells, M., ed. Parks, recreation and tourism. pp. 167-171.

2144 Hickie, J., 1984. **Tourism and a Western Tasmania National Park.** In: Wells, M., ed. Parks, recreation and tourism. pp. 123-124.

2145 Jensen, C.R., 1985. **Outdoor recreation in America.** 4th ed. Minneapolis, Burgess Publishing Co. 412 pp.

2146 Kozlowski, J.C., 1984. **Fees may have adverse impact on recreational use immunity.** Trends 21(4):26-30.

2147 Lime, D.W., Koch, N.E., and Heytze, J.C., 1986. **River recreation use and visitors: A cross-cultural analysis.** In: IUFRO World Congress, 18th, Division 6. Proceedings. pp. 78-89.
"Compares the preferences and attitudes of river and canal recreationists in the United States, Denmark, and the Netherlands regarding (1) their experiences and resource management in general, (2) potential problems, and (3) possible solutions." (p. 78)

2148 Long, R.B., 1986. **Analyzing a recreation region during economic stress.** Idaho Agricultural Experiment Station, Research Bulletin no. 122. 23 pp.
An economic study of Blaine County, Idaho, in which are located Sun Valley ski area and Sawtooth National Recreation Area.

2149 Lucas, P.H.C., 1984. **Parks, recreation and tourism: A New Zealand perspective.** In: Wells, M., ed. Parks, recreation and tourism. pp. 14-24.

2150 Lucas, R.C., 1986. **Managing future forests for wilderness and recreation.** In: Research for tomorrow. 1986 Yearbook of Agriculture. Washington, D.C., GPO. pp.217-221.

2151 Lundmark, T., 1986. **Private forests and public recreation in Germany.** Journal of Forestry 84(12):44-46.

2152 Maine Bureau of Parks and Recreation, 1986. **A report and recommendations for the management of all-terrain vehicles in Maine.** Maine Department of Conservation, Bureau of Parks and Recreation. 18 pp. + app.
A report submitted to the 112th Maine Legislature, second regular session.

2153 Maine Bureau of Parks and Recreation, 1985. **Camping characteristics at Maine state parks: 1982 characteristics and**

1964-1982 trends. Maine Department of Conservation, Bureau of Parks and Recreation. 132 pp.

2154 McAvoy, L.H., Gramann, J.H., Burdge, R.J., and Absher, J.D., 1986. **Understanding the causes of conflict between commercial and recreational users of the Mississippi River.** Journal of Park and Recreation Administration 4(3):49-60.
"This study of recreational boaters and commerical bardge operators on the Mississippi River offers a unique opportunity to study conflict in a new dimension." (p. 49)

2155 McCool, S.F. and Stankey, G.H., 1986. **Planning and social change: Responding to the revolution in recreation demand.** In: IUFRO World Congress, 18th, Division 6. Proceedings. pp. 67-77.

2156 McEwen, D.N., 1986. **Recreation quality and the market for tent camping.** Journal of Park and Recreation Administration 4(2):83-95.

2157 McGuire, F.A. and Adams, E.R., 1986. **Older volunteers and outdoor recreation: A nationwide study.** Journal of Park and Recreation Administration 4(3):10-16.
"This study reports data from the 1982-1983 Nationwide Recreation Survey related to the number of older individuals able to teach outdoor recreation activities, the specific activities they felt capable of teaching, and constraints preventing them from teaching those activities." (p. 10)

2158 Narayanan, R., 1986. **Evaluation of recreation benefits of instream flows.** Journal of Leisure Research 18:116-128.
"A methodology to estimate instream flow is proposed in this study. Using travel cost approach, demand for recreation is first estimated." (p. 116)

2159 O'Sullivan, D., 1984. **Antarctic tourism--problems for management.** In: Wells, M., ed. Parks, recreation and tourism. pp. 155-163.

2160 Owen, C.N., Wigley, T.B., and Adams, D.L., 1985. **Public use of large private forests in Arkansas.** North American Wildlife and Natural Resources Conference. Transactions 50:232-241.
This study identifies problems, policies, and programs associated with public recreational use of large privately owned forestlands from the landowner's perspective.

2161 Rosenthal, D.H., Donnelly, D.M., Schiffhauer, M.B., and Brink, G.E., 1986. **User's guide to RMTCM: Software for travel cost analysis.** U.S. Forest Service, General Technical Report RM-132. 32pp.

2162 Sharp, S., 1986. **Illinois tourism and recreation: An economic corridor of opportunity.** Parks and Recreation 21(10):46-49.

2163 Stevens, T.H., Allen, P.G., and More, T., 1986. **Benefits,**

costs, revenues, and pricing of public forest day-use recreation areas. Massachusetts Agricultural Experiment Station, Research Bulletin no. 708. 29 pp.

2164 U.S. National Park Service, 1986. **National trails assessment.** U.S. Department of the Interior, National Park Service. 155 pp.

2165 VanderSmissen, B., 1984. **Discretionary acts of managers' policy decision-making.** Trends 21(3):20-23.
Includes some recreation and parks case illustrations.

2166 Wells, M., editor, 1984. **Parks, recreation and tourism: Papers of the 57th National Conference of the Royal Australian Institute of Parks and Recreation, Launceston, 1984.** Belconnen, A.C.T., Australia, Royal Australian Institute of Parks and Recreation. 320 pp.
Includes paper on tourism, natural area management, recreation, technical horticulture, and cemeteries and crematoria. Selected papers are indexed in this issue.

2167 Westover, T.N., 1986. **Park use and perception: Gender differences.** Journal of Park and Recreation Administration 4(2):1-8.
"This study examines the extent to which males and females differ in their perceptions and use of three district-level parks in suburban and urban settings." (p. 1)

2168 Westphal, J.M., and Lieber, S.R., 1986. **Predicting the effect of alternative trail design on visitor satisfaction in park settings.** Landscape Journal 5:39-44.

2169 Wilburn, R.L., 1984. **Standards, liabilities and the park and recreation manager.** Trends 21(3):5-8.
"Liabilities frequently result when managers fail to comply with consensus or mandated standards." (p. 5)

2170 Winter, D., 1984. **Water based recreation--a consideration in the future planning and management of the Derwent Estuary.** In: Well, M., ed. Parks, recreation and tourism. pp. 225-234.
The Derwent Estuary is near Hobart, Tasmania.

WILDERNESS MANAGEMENT-NATURE CONSERVATION-NATIONAL PARKS

2171 Barker, P.F., 1986. **What's in a name: Perspectives on wilderness management.** In: Kulhavy, D.L. and Conner, R.N., eds. Wilderness and natural areas in the eastern United States: A management challenge. pp.12-14.

2172 Becker, R.H., Dottavio, F.D., and Menning, N.L., 1986. **Threats to coastal national parks: A technique for establishing management priorities.** Leisure Sciences 8:241-256.
"This paper describes a technique, the Cross-impact Assessment Process (CAP), which was used to understand the threat to coastal national parks." (p. 241)

2173 Boteler, F.E., 1986. **Eastern/western wilderness use and users.** In: Kulhavy, D.L. and Conner, R.N., editors, 1986. Wilderness and natural areas in the eastern United States: A management challenge. pp.212-217.

2174 Brown, B., 1984. **Wilderness and recreation.** In: Wells, M., ed. Parks, recreation and tourism. pp. 25-31.

2175 Burde, J. H. and Curran, K.A., 1986. **User perception of backcountry management policies at Great Smoky Mountains National Park.** In: Kulhavy, D.L. and Conner, R.N., eds. Wilderness and natural areas in the eastern United States: A management challenge. pp.223-228.

2176 Cestar, D., 1986. **[Forest management of special purpose forests in Croatia.]** In: IUFRO, 18th World Congress, Division 4. Proceedings. pp.37-43.
In German, with English summary. "Special purpose forests are grouped into four categories in Croatia: forest vegetation refuges, national parks, forest parks, and national parks." (p.42)

2177 Chase, A., 1986. **Playing God in Yellowstone" The destruction of America's first national park.** Boston, Atlantic Monthly Press. 446 pp.
The author contends that "As a wildlife refuge, Yellowstone is dying. Indeed, the park's reputation as a great game sanctuary is perhaps the best-sustained myth in American conservation history and the story of its decline perhaps one of our government's best-kept secrets." (p. 6)

2178 Chase, A., 1986. **Sometimes what threatens our parks is the Park Service.** Timber Producer, June, 1986. pp. 40-41.

2179 Cole, D.N., 1985. **Inadequate knowledge of visitor behavior and the impact it causes in varied settings limits improvement of the content of wilderness education programs.** Mimeo. 12 pp.
At head of title: "Problem analysis for RWU INT-1903, Problem no. 1. No publishing information given.

2180 Cordell, H.K., Legg, M.H., and Cathey, K.E., 1986. Visitor

needs and user impact. In: Kulhavy, D.L. and Conner, R.N., eds. Wilderness and natural areas in the eastern United States: A management challenge. pp.210-211.

2181 Davis, G.D., 1986. **Wilderness characteristics and values.** In: Kulhavy, D.L. and Conner, R.N., eds. Wilderness and natural areas in the eastern United States: A management challenge. pp.148-155.
This paper identifies and describes 25 wilderness values.

2182 Furtney, J., 1986. **Montana's wilderness lands: Extensive today, excessive tomorrow?** Western Wildlands 12(2):31-34.
It is the author's view that "Montana's current designated wilderness is extensive, perhaps even excessive." (p. 31)

2183 Greenberg, L.B. and Underhill, A.H., 1986. **Improving visitor communications in Grand Canyon National Park.** U.S. National Park Service, Western Region, Cooperative National Park Resources Studies Unit, University of Arizona, Special Report no.4. 71pp.
"The primary focus of the project was observing visitors' behavior to ascertain their information needs and use of information services." (p.ii)

2184 Grundsten, C., 1984. **National parks in Sweden: Europe's last wilderness.** Solna, Sweden, National Environment Protection Board. 119 pp. + maps.

2185 Hammitt, W.E., 1986. **Resource impacts of recreation on wilderness.** In: Kulhavy, D.L. and Conner, R.N., eds. Wilderness and natural areas in the eastern United States: A management challenge. pp.253-258.

2186 Heberlein, T.A., Alfano, G.E., and Ervin, L.H., 1986. **Using a social carrying capacity model to estimate the effects of marina development at the Apostle Islands National Lakeshore.** Leisure Sciences 8:257-274.

2187 Hendee, J.C., 1986. **Wilderness: Important legal, social, philosophical and management perspectives.** In: Kulhavy, D.L. and Conner, R.N., eds. Wilderness and natural areas in the eastern United States: A management challenge. pp.5-11.

2188 Jacobsen, R.R., 1986. **The wilderness management challenge in Shenandoah National Park.** In: Kulhavy, D.L. and Conner, R.N., eds. Wilderness and natural areas in the eastern United States: A management challenge. pp.198-202.
"The wilderness management challenges in the Shenandoah National Park are summarized with an historical perspective and comments on visitor guidelines." (p.198)

2189 Kiml, L., 1984. **Wilderness decisions--California style.** In: Summaries of the proceedings of the 1984 Western Forestry Conference. Portland, Western Forestry and Conservation

Association. pp. 62-68.
A recounting of events leading up to the passage of the California Wilderness Act.

2190 Kirby, P.C., 1986. **Why have wilderness?** In: Kulhavy, D.L. and Conner, R.N., eds. Wilderness and natural areas in the eastern United States: A management challenge. pp.19-29.

2191 Kulhavy, D.L. and Conner, R.N., editors, 1986. **Wilderness and natural areas in the eastern United States: A management challenge.** Stephen F. Austin State University, School of Forestry, Center for Applied Studies. 415 pp.
Proceedings of a symposium held in Nacogdoches, Texas, May 13-15, 1985. Selected papers are indexed in this issue.

2192 Lucas, R.C., 1986. **Wilderness and natural areas in the east: Symposium summary.** In: Kulhavy, D.L. and Conner, R.N., eds. Wilderness and natural areas in the eastern United States: A management challenge. pp.400-403.

2193 Mackintosh, B., 1984. **Visitor fees in the National Park System: A look back.** Trends 21(4):4-8.

2194 Marion, J.L. and Lime, D.W., 1986. **Recreational resource impacts: Visitor perceptions and management responses.** In: Kulhavy, D.L. and Conner, R.N., eds. Wilderness and natural areas in the eastern United States: A management challenge. pp.229-235.
"Research findings from a nationwide survey of river recreationists indicate that visitors have limited perceptions of resource impacts, such as vegetation and soil damage, but are perceptive of impacts resulting from depreciative behavior by other recreationists, such as litter and improperly disposed human waste." (p.229)

2195 McAvoy, L.H. and Dustin, D.L., 1985. **Regulating risks in the nation's parks.** Trends 22(3):27-30.

2196 McCurdy, D.R., 1985. **Park management.** Carbondale, Southern Illinois University Press. 250 pp.
"The purpose of this book is to bring together the many disciplines involved in park and recreation area management at the state and federal level, with an emphasis on natural resource management rather than local recreational programming." (p. xi)

2197 McDonald, C.D. and Hammitt, W.E., 1986. **Identification of visitor subgroup differences to facilitate management decisions.** In: Kulhavy, D.L. and Conner, R.N., eds. Wilderness and natural areas in the eastern United States: A management challenge. pp.247-252.
"This paper briefly identifies some legal mandates pertaining to wildland river management and identifies visitor preferences for certain management actions." (p.247)

2198 McLaughlin, W.J. and Krumpe, E.E., 1986. **Identifying wilderness management issues through an interactive process.** In: Kulhavy, D.L. and Conner, R.N., eds. Wilderness and natural areas in the eastern United States: A wilderness challenge. pp.218-222.

"A process obtaining broad public input and consensus on wilderness management issues conducted from 1983-1985 is outlined." (p.218)

2199 Moe, T.M. and Underhill, A.H., 1982. **A manual to determine recreational carrying capacity.** U.S. National Park Service, Western Region, Cooperative National Park Resources Studies Unit, University of Arizona, Special Report no.1. 44pp.

2200 Nakata, L., 1984. **Revenue management in the National Park Service.** Trends 21(4):22-25.

2201 Orr, H., 1986. **Does public involvement help wilderness management decisions?** In: Kulhavy, D.L. and Conner, R.N., eds. Wilderness and natural areas in the eastern United States: A management challenge. pp.30-33.

2202 Phillips, L.N., 1986. **Wilderness management issues and recommended solutions.** In: Kulhavy, D.L. and Conner, R.N., eds. Wilderness and natural areas in the eastern United States: A management challenge. pp.15-18.

2203 Roggenbuck, J.W. and Watson, A.E., 1986. **Providing information for management purposes.** In: Kulhavy, D.L. and Conner, R.N., eds. Wilderness and natural areas in the eastern United States: A management challenge. pp.236-242.

The authors "suggest that providing information to wilderness users is both an appropriate and an effective management tool to accomplish wilderness management objectives." (p.236)

2204 Saunders, P.R., 1986. **Shining Rock Wilderness: Impacts of dispersed use.** In: Kulhavy, D.L. and Conner, R.N., eds. Wilderness and natural areas in the eastern United States: A management challenge. pp.260-264.

"The purpose of this paper is to describe the impacts of dispersed recreational use on the spruce-fir stands of SRW." (p.260) The SRW is in the Pisgah National Forest in North Carolina.

2205 Schreyer, R., Beaulieu, J.T., Roggenbuck, J.W., and Watson, A.E., 1984. **Understanding the expectations of wilderness users--linking image to behavior: Final report.** Unpaged.

No publishing information given.

2206 Shand, T.D. and Underhill, A.H., 1985. **Saguaro National Monument: Recreational use by visitors, neighbors, and organized groups.** U.S. National Park Service, Western Region, Cooperative National Park Resources Studies Unit, University of Arizona, Technical Report no.15. 77pp.

"The results of the social science portions of a study on human impacts on Saguaro National Monument are reported." (p.i)

2207 Underhill, A.H. and Fonken, A.H., 1983. **International visitors to Grand Canyon National Park.** U.S.National Park Service, Western Region, Cooperative National Park Resources Studies Unit, University of Arizona, Technical Report no. 12. 40pp.

2208 Underhill, A.H. and Xaba, A.B., 1983. **The Wilderness Simulation Model as a management tool for the Colorado River in Grand Canyon National Park.** U.S. National Park Service, Western Region, Cooperative National Park Resources Studies Unit, University of Arizona, Technical Report no.11. 13pp. + Appendix.

2209 Underhill, A.H., Stewart, W.P., Manning, R.E., and Carpenter, E.H., 1986. **A sociological study of backcountry users at Grand Canyon National Park.** U.S. National Park Service, Western Region, Cooperative National Park Resources Studies Unit, University of Arizona, Technical Report no.17. 88pp.

2210 Wagtendonk, J.W. van and Coho, P.R., 1986. **Trailhead quotas: Rationing use to keep wilderness wild.** Journal of Forestry 84(11):22-24.

"As a direct-control method, trailhead quotas hold promise for meeting both visitor and management criteria." (p. 24)

2211 Watson, A.E. and Roggenbuck, J.W., 1986. **Recreation in eastern wilderness: Do we know what the visitors expect?** In: Kulhavy, D.L. and Conner, R.N., eds. Wilderness and natural areas in the eastern United States: A management challenge. pp.243-246.

2212 Webb, T.M., Jr., 1986. **The wilderness manager and the mass media.** In: Kulhavy, D.L. and Conner, R.N., eds. Wilderness and natural areas in the eastern United States: A management challenge. pp.208-209.

2213 Wright, P.J., 1986. **Can wilderness remain untrammeled without restricting use? A case history of management in Shining Rock Wilderness.** In: Kulhavy, D.L. and Conner, R.N., eds. Wilderness and natural areas in the eastern United States: A management challenge. pp.203-207.

Use of the Shining Rock Wilderness in western North Carolina has exceeded projections by nearly 500%.

2214 Wuerthner, G., 1986. **The natural role of humans in wilderness.** Western Wildlands 12(2):26-30.

"Wilderness managers seem to believe that all human intrusions are harmful and must be restricted. However,...a certain amount of human impact does not permanently damage the natural environment." (p. 30)

URBAN FORESTRY

2215 Beatty, R.A., 1985. **Planning guidelines for urban forest management.** In: Hall, D.O., Myers, N., and Margaris, N.S., eds. Economics of ecosystem management. Dordrecht, Junk. pp. 165-173.

2216 Cousineau, C., 1985. **Recreation use and perceived value of urban forest areas.** Recreation Research Review 11(3/4):7-13.
"The focus of this article is the psychological benefits derived by the local residents." (p. 7)

2217 Jorgensen, E., 1986. **Urban forestry in the rearview mirror.** Arboricultural Journal 10:177-190.
An overview of urban forestry since 1965.

2218 Morrison, G.L. and Youl, R.M., 1985. **Suburban silvilculture: Costs and considerations.** In: Mead, D.J. and Ellis, R.C., eds. Forestry--Satisfying national and regional needs. pp. 99-102.
"This paper provides a definition of urban forestry, gives guidelines for successful projects, discusses costs, maintenance and benefits, philosophies on urban forestry in Victoria and describes a major British example at Warrington, Cheshire." (p. 99)

2219 Norman, J.M., 1986. **Home energy savings from urban trees in Nebraska.** In: International Symposium on Windbreak Technology, Lincoln, Nebraska, 1986. Great Plains Agricultural Council Publication 117:199-200.
"The main topic of this paper is the role of trees in modifying the urban microclimate surrounding houses, and the economic value of that climatic amelioration." (p. 199)

WILDLIFE AND FISH

2220 Donnelly, D.M. and Nelson, L.J., 1986. **Net economic value of deer hunting in Idaho.** U.S. Forest Service, Resource Bulletin RM-13. 27pp.

"Average net willingness to pay in addition to actual expenditure for deer hunting in Idaho was estimated with the Travel Cost Method... and with the revised 1983 Contingent Value Method...." (abstract)

2221 Gullion, G.W., 1985. **Aspen management--an opportunity for maximum integration of wood fiber and wildlife benefits.** North American Wildlife and Natural Resources Conference. Transactions 50:249-261.

2222 Hair, J.D., 1986. **A national perspective on current wildlife issues.** Oklahoma State University, Department of Forestry, 1986 Nat Walker Lectureship. [6] pp.

2223 Hastings, B.C. and Hammitt, W.E., 1986. **Preferences of visitors for wildlife species.** In: Kulhavy, D.L. and Conner, R.N., eds. Wilderness and natural areas in the eastern United States: A management challenge. pp.89-93.

"Recreation visitors to Great Smoky Mountains National Park were asked how much they would like to see each of 33 animals.... Commonly feared and domestic groups were least preferred." (p.89)

2224 Hawkes, L.E., 1986. **Trespass fees for hunting and access to public land: The over-commercialization of Montana's wildlife resources.** Western Wildlands 12(2):21-25.

The author concludes: "If the present trends toward blocking access to public land and charging trespass fees to hunt private lands are allowed to accelerate, the average Montana resident will soon be squeezed out of the hunting picture." (p. 25)

2225 Lassiter, R.L., Jr., 1984. **Management of wildlife resources on large private forestland holdings in the southeastern United States.** North American Wildlife and Natural Resources Conference. Transactions 50:221-231.

2226 McKee, B., 1986. **Economic tradeoffs: Timber and game.** Forest Farmer 46(2):18-19.

The author identifies "the economic problems and constraints of wildlife habitat tradeoffs on nonindustrial forest land" and attempts to "determine the impact of habitat enhancement on dollar returns of a typical forest management strategy." (p. 18)

2227 Norgaard, J.K., 1986. **For the elk...for the hunter...managing elk and elk habitat in the national forests.** Western Wildlands 12(2):8-14.

2228 Reed, N.P., and Drabelle, D., 1984. **The United States Fish and**

Wildlife Service. Boulder, Colorado, Westview Press. 163 p.
In-depth coverage of the U.S. Fish and Wildlife Service - history, organization and policies.

2229 Salwasser, H. and Sampson, F.B., 1985. **Cumulative effects analysis: An advance in wildlife planning and management.** North American Wildlife and Natural Resources Conference. Transactions 50:313-321.
"A cumulative effects analysis is an assessment of how the combination of natural processes and events and man's activities cause resources and environmental conditions in an area to change over time." (p. 313)

2230 Shilling, C.R., Noble, R.E., and Knaus, R.S., 1986. **Leasing of hunting rights on forestland: A look at its evolution.** Forests and People 36(3):20-22, 28-29.

2231 Sidle, W.B., 1985. **Habitat management for forest birds in southeast Alaska.** U.S. Forest Service, Alaska Region Admin. Doc. no. 146. 21 pp.
At head of title: Wildlife and fisheries habitat management notes.

2232 Thomas, J.W., 1986. **Wildlife in managed forests--a matter of commitment.** Forestry Chronicle 62:383-386.
"The forest, whether managed or unmanaged, is wildlife habitat. No matter what the forest manager does, the forest will continue to be wildlife habitat. But habitat for what species and of what quality?" (p. 383)

2233 Tomlinson, B.H., 1985. **Economic values of wildlife: Opportunities and pitfalls.** North American Wildlife and Natural Resources Conference. Transactions 50:262-270.

2234 Urich, D.L., Graham, J.P., and Kelly, P.E., 1984. **Statewide planning using the Wildlife and Fish Habitat Relationships System.** Wildlife Society Bulletin 14:22-30
The paper describes the development and application of the Wildlife and Fish Habitat Relationships System to statewide wildlife management areas in Missouri.

WOOD PRODUCTION

2235 Abercrombie, J.A., Jr. and Sims, D.H., 1986. **Fell and burn for low-cost site preparation.** Forest Farmer 46(1):14-17.

2236 Boyce, S.G., Burkhardt, E.C., Kellison, R.C., and VanLear, D.H., 1986. **Silviculture: The next thirty years, the past thirty years. Part III. The South.** Journal of Forestry 84(6):41-48.

"With changing social, economic, and political forces influencing forest investments and uses, the best approach in the coming decades will be to produce diverse forest benefits." (p. 41) Silviculture can be used "for the joint production of marketable and non-marketable forest benefits." (p. 48)

2237 Cavana, R.Y. and Glass, B.P., 1985. **Economic analysis of selected special-purpose species regimes.** New Zealand Journal of Forestry Science 15:180-194.

The economics of growing radiata pine in a small farm woodlot in the central North Island were compared to certain special purpose species, viz cypresses, eucalypts, Australian blackwood, and black walnut.

2238 Chaturvedi, A.N., 1985. **Firewood farming on degraded lands in the Gangetic Plain.** U.P. (Uttar Pradesh) Forest Bulletin no. 50. 52 pp.

"The initial expenditure of firewood farming on degraded lands is higher than on fertile sites. The economic returns are low but considering the fact that these lands are of low value and the social benefits of afforesting these sites are considerable, the internal rates of returns of 11% to 15% can be considered to be quite good." (p. 3)

2239 Culhane, J.C. and Gunter, J.E., 1986. **Biological and financial rotation age of established aspen stands.** Michigan State University, Agricultural Experiment Station, Research Report no. 478. 7 pp.

2240 Dippon, D.R., 1986. **Slash and sand pine intensive short rotation culture: Economic energy feedstock?** In: Southern Forest Biomass Workshop, Gainesville, FL, 1985. Proceedings. Florida Cooperative Extension Service. pp.52-57.

"The purpose of this study is to estimate the lowest cost per dry tonne of biomass produced based on hypothetical slash and sand pine short rotation intensive culture systems." (p.53)

2241 Evans, J., 1986. **Developments in tree planting in the Third World.** Quarterly Journal of Forestry 80:225-232.

"Practical ways of increasing food and wood supply in an era of diminishing tropical forests." (p. 225)

2242 Hasnain, S., Pigeon, R., and Overend, R.P., 1986. **Economic analysis of the use of tissue culture for rapid forest improvement.** Forestry Chronicle 62:240-245.

2243 Holten-Andersen, P., 1986. **[The economics of cyclical beech management.]** Dansk Skovforenings Tidsskrift 71:251-290.
In Danish, with English summary. This paper discusses two issues: One is to compare different management regimes for self-regenerating beech; the second is to develop an economic model that permits comparison of beech management with other forms of land use, including the specific example of Norway spruce.

2244 Horn, J.E., Medema, E.L., and Schuster, E.G., 1986. **User's guide to CHEAPO II--economic analysis of Stand Prognosis Model outputs.** U.S. Forest Service, General Technical Report INT-211. 38 pp.
"CHEAPO II provides supplemental economic analysis capability for users of version 5.1 of the Stand Prognosis Model...." (abstract)

2245 Ishii, Y. and Arai, H., 1986. **A study on the present state of plantation forestry in Hokkaido.** In: Japanese Forest Economic Society. The current state of Japanese forestry (V). pp. 30-38.

2246 Lorrain-Smith, R., 1982. **An economic analysis of silvicultural options for broadleaved woodland. Vol. II.** University of Oxford, Commonwealth Forestry Institute, C.F.I. Occasional Paper no. 19, vol. II. 120 pp.

2247 Lugas, M., 1984. **Residual stand management-criteria for decision making.** In: Summaries of the proceedings of the 1984 Western Forestry Conference. Portland, Western Forestry and Conservation Association. pp. 86-93.

2248 Mangundikoro, A., 1986. **General plan for timber estates development in Indonesia.** In: FAO. Appropriate forest industries. pp. 201-216.

2249 May, D.M., 1986. **Southern pulpwood production, 1984.** U.S. Forest Service, Resource Bulletin SO-111. 25 pp.

2250 McDonald, S.E., 1986. **At the threshold of scientific reforestation.** In: Research for tomorrow. 1986 Yearbook of Agriculture. Washington, D.C., GPO. pp.215-217.
Discusses reforestation in the 21st century.

2251 Minko, G., 1985. **Cost of thinning regeneration in second-rotation radiata pine plantations with a motorized brushcutter and with a hand slasher.** Australian Forest Research 15:515-520.

2252 Nishikawa, K., 1986. **Trends of silviculture and management of hardwood forests in Japan.** In: Japanese Forest Economic Society. The current state of Japanese forestry (V). pp.19-29.

2253 Perlack, R.D., Das, S., and Ranney, J.W., 1986. **The economic evaluation of SRIC energy plantations.** In: Southern Forest

Biomass Workshop, Gainesville, FL, 1985. Proceedings. Florida Cooperative Extension Service. pp.58-61

Describes a microcomputer model for evaluatiog the economics of wood energy plantations.

2254 Porterie, G.L., Gartley, N.B., and Horton, A.J., 1986. **Stewardship contracts.** Journal of Forestry 84(11):29-33.

"The political popularity of privatization could lead government land managers to contract out the entire regeneration cycle,retaining only direction and general control of prescriptions and operations." (p. 29)

2255 Pryor, S.N., 1982. **An economic analysis of silvicultural options for broadleaved woodland. Vol. I.** University of Oxford, Commonwealth Forestry Institute, C.F.I. Occasional Paper no. 19, Vol. I. 120 pp.

2256 Raymond, O.H., 1985. **Unmarked pine thinnings--a commercial option.** In: Mead, D.J. and Ellis, R.C., eds. Forestry--Satisfying national and regional needs. pp. 177-181.

Cost savings through not marking are estimated.

2257 Rensema, T.R. and Tuskan, G.A., 1986. **An economic analysis of wood utilization from field windbreaks of the Northern Great Plains.** In: International Symposium on Windbreak Technology, Lincoln, Nebraska, 1986. Great Plains Agricultural Council Publication 117:217-218.

2258 Rose, D.W. and Hoganson, H.M., 1986. **The economics of wood energy production.** In: IUFRO, 18th World Congress, Division 3. Proceedings. pp.131-139.

2259 Rutherford, P.R., 1985. **Joint venture farm forestry scheme--A.N.M. Forests Pty. Ltd.** In: Mead, D.J. and Ellis, R.C., eds. Forestry--Satisfying national and regional needs. pp. 111-113.

"A.N.M. Forests Pty. Ltd. was formed to develop company plantations and to enter into joint venture plantings with farmers within the zone of supply of A.N.M. Ltd. paper mills." (p. 111)

2260 Savill, P.S. and Evans, J., 1986. **Plantation silviculture in temperate regions with special reference to the British Isles.** Oxford, Clarendon Press. 246 pp.

"Emphasis is on the biological principles which underlie silvicultural practices rather than the practices themselves." (preface)

2261 Schmidt, T.L., 1986. **Economic impacts of windbreaks in Nebraska.** In: International Symposium on Windbreak Technology, Lincoln, Nebraska, 1986. Great Plains Agricultural Council Publication 117:237-238.

2262 Stier, J.C., 1986. **Economics of tree improvement.** In: International Union of Forestry Research Organizations, 18th

World Congress, Division 2. Proceedings 2:600-613.
"Review of two dozen economic evaluations of tree improvement programs indicates that such investments are generally economically attractive, with internal rates of return of 8%-20%." (p.600)

2263 Thiede, G.J., 1986. **Economics of thinning from the forest management standpoint.** In: Hardwood thinning opportunities in the Lake States: Proceedings of a symposium, Escanaba, MI, 1984. U.S. Forest Service, General Technical Report NC-113:102-107.

2264 Turvey, N.D. and Cameron, J.N., 1986. **Site preparation for a second rotation of radiata pine: growing costs and production of wood and kraft pulp.** Australian Forestry 49:160-165.
One of the objectives of the study was to estimate the economic value of site preparation treatments.

2265 Whitmore, J.L., de Barros, N.F., and Salazar, R., editors, 1986. **Plantation forests for wood production in the neotropics: Abstracts of three International Symposia held by the IUFRO S1.07-09 Working Party.** U.S. Government Printing Office. 147 pp.
Includes 127 abstracts dealing with plantation silviculture in the Latin American tropics. These are abstracts of papers presented at three IUFRO/MAB Symposia held in Puerto Rico in 1980, Brazil in 1983, and Costa Rica in 1985.

TIMBER HARVESTING

2266 Blinn, C.R., Sinclair, S.A., Hassler, C.C., and Mattson, J.A., 1986. **Comparison of productivity, capital, and labor efficiency of five timber harvesting systems for northern hardwoods.** Forest Products Journal 36(10):63-69.

2267 Curtin, D.T. and Barnett, P.E., 1986. **Development of forest harvesting technolgy: Application in short rotation intensive culture (SRIC) woody biomass.** Tennessee Valley Authority, Technical Note B58. 90 pp.
Available forest biomass harvesting systems, functions, and machines are briefly described. Cost information is included.

2268 Ericson, O., 1986. **A modern approach to planning of logging operations.** In: IUFRO, 18th World Congress, Division 3. Proceedings. pp.78-89.
Describes a system, SKOGPLAN 84, developed at the Forest Operations Institute in Sweden.

2269 Garland, J.J., Studier, D.D., and Hoefer, C.J., 1986. **Logging planning with the Hewlett-Packard 41-C series calculator.** Oregon State University, College of Forestry, Forest

Research Laboratory. 151pp.

"The purpose of this publication is to collect, in one place, the reference material for a 'Users Guide' for 14 of the commonly used programs for logging planning." (p.2)

2270 Hof, J.G., Pickens, J.B., and Bartlett, E.T., 1986. **A MAXMIN approach to nondeclining yield timber harvest scheduling problems.** Forest Science 32:653-666.

"This paper investigates an alternative approach to scheduling timber harvests when nondeclining yield is desired." (p. 653)

2271 Kozhevnikov, A.M., Yefimenko, V.M., and Davidovich, N.V., 1986. **Silvicultural-economic programmes of service fellings in pure stands.** In: International Union of Forestry Research Organizations, 18th World Congress, Division 1. Proceedings. 1:324-335.

"Pure stand thinning-out is optimized through dynamic programming with a view to making maximum profit from the products obtained, including basic felling." (p.324)

2272 Lyon, K.S. and Sedjo, R.A., 1986. **Binary-search SPOC: An optimal control theory version of ECHO.** Forest Science 32:576-584.

"Two models for identifying the optimal harvest of old-growth forests--the supply potential optimal control model, SPOC, and the economic harvest optimization model, ECHO--are compared theoretically and numerically." (p. 576)

2273 Martin, R., Greulich, F., Baumgartner, D., and Hanley, D., 1985. **Timber harvesting alternatives.** Washington State University, Cooperative Extension, EB1316. 26 pp.

Includes information on planning etc. to assist private forest landowners in making decisions regarding timber harvest alternatives.

TIMBER SUPPLY

2274 Carlen, O., 1986. **The Swedish private non-industrial forest owner's cutting behaviour-an econometric study based on cross-section data.** Sveriges Lantbruksuniversitet, Institutionen for Skogsekonomi, Rapport 66. 53 pp.

2275 Carpenter, E.M., 1986. **Timber supply and hardwood thinning opportunities on Michigan's nonindustrial private forests.** In: Hardwood thinning opportunities in the Lake States: Proceedings of a symposium, Escanaba, MI, 1984. U.S. Forest Service, General Technical Report NC-113:143-148.

2276 Constantino, L., 1986. **An alternative to the supply structure in TAMM.** University of British Columbia, Forest Economics and Policy Analysis Project, Report 86-9. 25pp.
This study evaluates the supply structure of the Timber Assessment Market Model and suggests modifications to improve on the current supply equation. (preface)

2277 de Steiguer, J.E. and Royer, J.P., 1986. **Increasing forestry investments by means of public policy programs.** In: IUFRO, 18th World Congress, Division 4. Proceedings. pp.281-286.
The authors "review recent studies concerning the influence of public policy programs on nonindustrial private (NIPF) reforestation in the United States, and express concerns that "recent increases in demand for housing may bring new pressure upon NIPFs as a source of wood." (p.281)

2278 Edwards, M.B.P., 1985. **Macro and micro economic aspects regarding wood as raw material in South Africa.** In: Symposium on Forest Products Research International...Proceedings. Vol. 3, paper no. 15-5. 6 pp.

2279 Lofgren, K.G., 1986. **Effects of permanent and non-permanent forest political means on timber supply.** In: IUFRO, 18th World Congress, Division 4. Proceedings. pp.257-262.

2280 Reed, F.L.C., 1986. **Canada's timber supply.** Forestry Chronicle 62:335-338.
This paper compares timber production trends to sustainable annual allowable cuts (AACs).

2281 Sedjo, R.A. and Lyon, K.S., 1986. **Long term timber supply: Demand side considerations.** In: IUFRO, 18th World Congress, Division 4. Proceedings. pp.136-146.
"This paper examines the role of future demand in affecting the long term timber supply both at a point in time and through time." (p.136)

2282 Smith, W.B. and Blyth, J.E., 1986. **Tracking timber removals in the Lake States--they're increasing.** Northern Logger and Timber Processor 35(3):16-17.

2283 Stratten, P.M., 1985. **The socio-economics of timber supply in**

rural Southern Africa. In: Symposium on Forest Products Research International...Proceedings. Vol. 7, paper no. 14-10. 13 pp.

"The importance of afforestation to rural communities in Southern Africa is often not understood or appreciated. Both policy makers and peasant farmers need to be made aware of its benefits. The socio-economic implications of timber supply from afforestation are analysed." (abstract)

2284 VanderMerwe, S.W., 1985. **Supply and demand of timber in South Africa.** In: Symposium on Forest Products Research International...Proceedings. Vol. 3, paper 15-9. 21 pp.

2285 Williams, D.H. and Gasson, R., 1986. **The economic stock of timber in the coastal region of British Columbia.** University of British Columbia, Forest Economics and Policy Analysis Project, Report 86-11, vol.1. 20pp.

2286 Williams, D.H., Booth, D.L., Fullerton, J.M., and Morrison, P.D., 1984. **An economic timber supply model of British Columbia.** University of British Columbia, Forest Economics and Policy Analysis Project. 10 pp.

Presented at the IUFRO Symposium of Forest Planning and Managerial Economics, Tokyo, 1984.

TIMBER SALES

2287 Huang, F.M. and Buongiorno, J., 1986. **Market value of timber when some offerings are not sold: Implications for appraisal and demand analysis.** Forest Science 32: 845-854.

"A model of market value was developed for tracts of timber sold at auction for a minimum appraised value, when a substantial number of the tracts offered do not receive a bid." (p.845)

SOCIAL SCIENCES APPLIED TO FOREST INDUSTRIES

WOOD-USING INDUSTRIES

2288 Arbaiza M., C.E., 1986. **The use of tropical timber in building construction in Latin America: The solution for the 21st Century?** In: IUFRO, 18th World Congress, Division 5. Proceedings. pp.12-24.

2289 Barron, B., 1986. **Nova Scotia forest production survey 1986.** Truro, Nova Scotia Dept. of Lands and Forests. [39] pp.
Listings of producers and production for 1985 calendar year.

2290 Bengston, D.N. and Strees, A., 1986. **Intermediate inputs and the estimation of technical change: The lumber and wood products industry.** Forest Science 32:1078-1085.
"This note examines the measurement of technical change in the U.S. lumber and wood products industry by empirically comparing the value-added model of production with a gross output model that explicitly includes intermediate inputs in the production process." (p.1078)

2291 Bergvall, J.A., 1985. **Washington forest industries: A 1985 review.** Washington State Dept. of Natural Resources. 14 pp.
Undated; probable date of publication, 1985.

2292 Bethel, J.S., 1986. **Common features of forest industries projects.** In: FAO. Appropriate forest industries. pp. 59-70.

2293 Bohning, R.A., 1986. **The forest industry in the economy of the Northwest Territories, 1980-81.** Northern Forestry Centre, Information Report NOR-X-277. 73 pp.

2294 Brennan, D.P., 1985. **Restructuring in the forest products industry.** Presentation to the American Paper Institute 1985 Pulp and Fiber Fall Seminar, Innisbrook, Tarpon Springs, Florida, Oct. 2, 1985. 15 pp.

2295 Chappelle, D.E. et al., 1986. **Economic impacts of Michigan forest industries: A partially survey-based input-output study.** Michigan State University Agricultural Experiment Station, Research Report no. 472. 17 pp.
"This is the third report in a series describing and analyzing the timber products economy of Michigan as of 1980." (p. 1) Co-authors are: S.E. Heinen, L.M. James, K.M. Kittleson, and D.D. Olson.

2296 Chappelle, D.E., 1986. **Predicting Michigan production levels to meet forecasting demands for certain forest products.** Michigan State University, Dept. of Forestry. 43 pp.
A final report to the Manufacturing Service Bureau, Michigan Dept. of Commerce, Lansing, Michigan. "The objective of this study was to predict levels of Michigan manufactuing plant production to meet final demands for specified forest products sectors...." (p. 1)

2297 Constantino, L.F. and Townsend, G.M., 1986. **Modelling short-run producer behaviour as an operating rate decision: The Canadian sawmilling and pulp and paper industries.** University of British Columbia, Forest Economics and Policy Analysis Project, Report 86-10. 36pp.

2298 Cortes, H., 1986. **Development impact of an integrated forest industry in Chile.** In: FAO. Appropriate forest industries. pp. 287-310.

2299 Croeser, G.P., 1985. **The influence of national and international economic trends on the South African forestry industry.** In: Symposium on Forest Products Research International...Proceedings 8:103-138.

2300 Croon, I., 1986. **[Structural changes in the Swedish forest industry.]** Svensk Papperstidning 89(11):6-8.
In Swedish.

2301 Dost, W.A., 1986. **Trends in the use of wood as a construction material in North America.** In: IUFRO, 18th World Congress, Division 5. Proceedings. pp.1-11.

2302 Ellis, B.K. and Brown, J.A., 1986. **Production and use of industrial wood and bark residues in the Tennessee Valley Region, 1984.** Tennessee Valley Authority, Division of Land and Economic Resources, Forest Resources Development Program, Technical Note B61. 12pp. + appendices.

2303 FAO Secretariat, 1986. **Guiding modern forest-based industry development impacts.** In: FAO. Appropriate forest industries. pp. 399-426.
"This paper explores the nature of the likely impacts of modern, large scale enterprises in the forest-based sector." (p. 400)

2304 FAO Secretariat, 1986. **Improving legislation for appropriate forest industries.** In: FAO. Appropriate forest industries. pp. 157-168.
The discussion focuses on "those forestry enterprises that rely primarily on local human and natural resources for their operation. It is here that improvements are needed in legislation in order to remove constraints to rural forestry development and provide greater support to appropriate forest industries." (p. 158)

2305 FAO Secretariat, 1986. **Small scale forest-based processing enterprises: Their characteristics and impact on rural employment and income.** In: FAO. Appropriate forest industries. pp. 71-98.

2306 FAO, 1986. **Appropriate forest industries.** Rome, Food and Agriculture Organization of the United Nations, FAO Forestry Paper no. 68. 426 pp.
Includes papers from an Expert Consultation held in

Jakarta, Indonesia, Sept. 30 - Oct. 6, 1985. Selected papers are indexed in this issue.

2307 FAO, 1986. **Management of forest industries.** Rome, Food and Agriculture Organization of the United Nations, FAO Forestry Paper no. 69. 304 pp.

A compilation of lecture papers presented at the First FAO/Finland Workshop on Management of Forest Industries, Kotka, Finland, Aug. 26-Sept. 15, 1984. Selected papers are indexed in this issue.

2308 FAO, 1986. **Projected pulp and paper mills in the world 1985-1995.** Rome, Food and Agriculture Organization of the United Nations. 114 pp.

2309 Forestry Forum, 16th, 1986. **Proceedings: How is southern forestry changing?** Virginia Tech, Virginia Cooperative Extension Service, Publication 420-920. 66 pp.

Includes 11 papers relating to the southern forest products industry.

2310 Forsstrom, A. and Thoren, A., 1986. **[The pulp and paper industry in China.]** Svensk Papperstidning 89(12):6-13.

In Swedish.

2311 Harpole, G.B., 1985. **An economic model for life-cycle cost analyses of sawmilling operations.** In: Symposium on Forest Products Research International...Proceedings. Vol. 3, paper no. 10-7. 9 pp.

2312 Harpole, G.B., 1985. **Opportunities for techno-economic applications in world forestry.** In: Symposium on Forest Products Research International...Proceedings. Vol. 3, paper no. 15-1. 6 pp.

"Techno-economics refers to the methods used for identifying, anticipating, and describing ways to satisfy humanistic needs." (p. 2)

2313 Haygreen, J.G. and Steklenski, P.G., 1986. **Economic comparison of small to medium size industrial/commercial energy systems.** In: IUFRO, 18th World Congress, Division 5. Proceedings. pp.282-293.

2314 Heinrich, R., 1986. **Planning the wood supply for a forest industrial project.** In: FAO. Management of forest industries. pp. 153-170.

"The topic of this paper is the nature and the extent of planning which is necesary to ensure an adequate supply of logs or fibre for a forest industrial project." (p. 153)

2315 Hrobsky, M., 1985. **[Attempt of classifying forest enterprises according to conditions of production and economics in order to compensate consequencies of the differential rent.]** Lesnicky Casopis 31:485-494.

In Czech with English summary. This paper is an attempt

"to classify objectively conditions of production and economics of the forest enterprises in the SSR using data from statistical and accounting records for the years 1976 and 1979."

2316 Igugu, G.O., 1986. **The Nigerian-Romanian Wood Industries (NIROWI) degree of appropriateness.** In: FAO. Appropriate forest industries. pp. 275-285.

2317 International Union of For. Res. Org., 18th World Cong., Div.5, 1986. **Proceedings** Vienna, IUFRO Secretariat. 554 pp.
Proceedings of Division 5, Forest Products. Selected articles are indexed in this issue.

2318 Jaakko Poyry Oy, 1986. **A case history of the Aracruz Pulp Mill Project in Brazil.** In: FAO. Appropriate forest industries. pp. 341-357.

2319 Juvonen, R., 1986. **Introduction to forestry and forest industries in Finland.** In: FAO. Management of forest industries. pp. 1-7.

2320 Kamau, F.M., 1986. **Development of a fibreboard factory at Elburgon, Kenya.** In: FAO. Appropriate forest industries. pp. 261-273.

2321 Karttunen, O., Viitamaki, V., and Sodergard, H., 1986. **Organization and managment of forest industry corporations.** In: FAO. Management of forest industries. pp. 97-118.

2322 Kulusic, B., 1986. **[Management and industry for broadleaved trees in Yugoslavia].** Holz-Zentralblatt 112: 1326.
In German. The article shows amount and assortment structure of the felled volume of broadleaved trees in Yugoslavia, the different kinds of processing and the export of roundwood and sawnwood. (WK,WK)

2323 Kyrklund, B., 1986. **Appropriate technology for forest industries.** In: FAO. Management of forest industries. pp. 57-60.

2324 Letourneau, L.R., 1986. **Appropriate forest based industries.** In: FAO. Management of forest industries. pp. 9-21.
The search for appropriate industries and appropriate technologies is just as important for developed as for developing countries.

2325 Mendoza, G.A. and Bare, B.B., 1986. **A two-stage decision model for log bucking and allocation.** Forest Products Journal 36(10):70-74.
"This paper defines integrated wood utilization that may include not only log bucking and sawmilling but other processes like veneer and plywood manufacture." (p. 71)

2326 Meulenhoff, L.W.M., 1986. **Recent developments in sawmill and plywood industries in Indonesia.** In: FAO. Appropriate forest

industries. pp. 383-397.

2327 Montrey, H.M., 1986. **Forest harvesting, wood utilization, and products of the future.** In: Research for tomorrow. 1986 Yearbook of agriculture. Washington, D.C., GPO. pp.353-361.

2328 Murrieta, A.H., 1986. **A strategy for the development of forest industry in developing countries (the case of Mexico).** In: FAO. Appropriate forest industries. pp. 249-260.

2329 Mustanoja, K.J., 1986. **A review of methodology for evaluation of appropriateness.** In: FAO. Appropriate forest industries. pp. 311-324.

"Appropriateness can be understood as the measure of how well a forest industrial activity fits into its technological, physical, economic, legal, political, cultural and social environment." (p. 313)

2330 Nair, C.T.S., 1986. **Bamboo-based industry in Kerala State, India.** In: FAO. Appropriate forest industries. pp. 99-109.

2331 Pastina, F., 1986. **Forest industry in Italy: Constraints, solutions and policy issues.** In: FAO. Appropriate forest industries. pp. 145-156.

2332 Petrov, A.P., 1985. **Economic, ecological and social aspects of the utilization of the forest resources of Siberia.** In: Managing global issues; reasons for encouragement. Proceedings of the Club of Rome Conference, Helsinki 1984. pp. 82-87.

2333 Picornell, P.M., 1986. **Technology and people at Paper Industries Corporation of the Philippines.** In: FAO. Appropriate forest industries. pp. 169-179.

2334 Saravia Toledo, C., 1986. **Production of charcoal in Salta Province (Argentina).** In: FAO. Appropriate forest industries. pp. 111-132.

2335 Schallau, C., 1986. **Forest products in the Pacific Northwest--a declining industry?** Forest Products Journal 36(10):18-20.

2336 Schallau, C.H., Maki, W.R., Foster, B.B., and Redmond, C.H., 1986. **Virginia's forest products industry: Performance and contribution to the state's economy, 1970 to 1980.** U.S. Forest Service, Research Paper PNW-368. 22 pp.

2337 Sio, F.K., 1986. **Liberia: The legal and institutional framework for citizen participation in forest industries.** In: FAO. Appropriate forest industries. pp. 133-143.

Argues for increased local participation in forest industries as opposed to foreign control and exploitation.

2338 Soderstrom, O., 1986. **[The influence of saw log storage on some processes etc in the sawmill industry.]** Sveriges Lantbruksuniversitet, Institutionen for Virkeslara, Rapport

nr.181. 45pp.+ 11pp. appendix.
In Swedish with English summary. "The aim of this study was to gather knowledge of how utilization of stored sawtimber affects the economy of some processes etc in the saw mill industry." (p.v) Includes an appendix: "The influence of saw log storage on the bark's content of energy."

2339 Solberg, B., 1986. **Socio-economic appraisal of alternative technologies for the sawing of softwood at Sao Hill Sawmill in Tanzania.** In: FAO. Appropriate forest industries. pp. 359-381.

2340 Symposium on Forest Products Research International--Achievements and the Future, Pretoria, 1985. **Proceedings.** Pretoria, National Timber Research Institute, South African Council for Scientific and Industrial Research. 9 vols.
Selected papers are indexed in this issue.

2341 Tanaka, C., Nakao, T., and Takahashi, A., 1986. **[Trends in the sawmilling industries in the San'in Region (2)]** Studies of the San'in Region. Forest Resources 2:65-75.
In Japanese.

2342 Tennessee Valley Authority, 1986. **Directory of forest industries in the Tennessee Valley Region 1985.** Tennessee Valley Authority, Division of Land and Economic Resources. 265 pp.
A listing of primary and secondary forest industries.

2343 Tesoro, F.O., 1986. **Use of tropical timbers in building construction in Southeast Asia.** In: IUFRO, 18th World Congress, Division 5. Proceedings. pp.25-36.

2344 VanVuuren, M.J.C. and Weys, J.D., 1985. **A management forecast of key parameters in the South African forestry industry.** In: Symposium on Forest Products Research International...Proceedings 8:67-102.

2345 Yerkes, V.P., 1985. **The impact of quality control in timber harvesting and milling on overall efficiency and profits.** In: Symposium on Forest Products Research International...Proceedings. Vol. 3, paper no. 10-9. 10 pp.
"Analysis of the efficiency of conversion of the standing tree to commodity lumber shows that as much as 20% of the potentially available original volume and value of the tree is lost through inefficient harvesting and milling techniques." (synopsis)

OTHER FOREST INDUSTRIES

2346 Galehouse, H.J., 1986. **Herbicides and fertilizers are cost effective.** American Christmas Tree Journal 30(4):57-58.
Fertilization of Christmas trees.

2347 Hunter, L.P. and Kronrad, G.D., 1986. **Managing your land for Christmas tree production.** National Woodlands 9(6):5-8.

2348 Hunter, L.P. and Kronrad, G.D., 1986. **Managing your land for Christmas tree production.** N.C. State University, Small Woodlot Forestry R & D Program, Research Notes Series no. 67. [4] pp.
Reprinted from National Woodlands 9(6):5-8.

2349 Szymaniak, T., 1986. **[Polish forests do not only deliver timber].** Holz-Zentralblatt 112: 1330-1331.
In German. Besides timber-production, the accessory products of forestry, like mushrooms, venison and berries, are an important factor of the political economy in Poland. (WK,WK)

2350 Zedaker, S.M., Leuschner, W.A., and Vodak, M.C., 1986. **Estimated costs and returns for growing one acre of white pine Christmas trees.** Virginia Cooperative Extension Service, Publication 420-081. 4pp.

MARKETS-MARKETING-TRADE

2351 Adams, D.M. and Haynes, R.W., 1986. **Development of the Timber Assessment Market Model system for long-range planning by the United States Forest Service.** In: IUFRO, 18th World Congress, Division 4. Proceedings. pp.158-169.
"This paper describes current and prospective development of the Timber Assessment Market Model (TAMM), a long-range simulation model of North American lumber, panel, fiber products, and stumpage markets." (p.158)

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